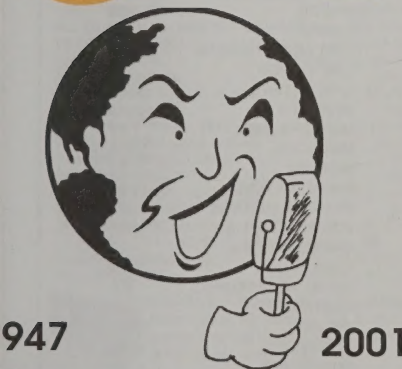


WORLD'S FINEST

ELECTRONIC SURPLUS

54th



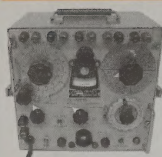
947 2001

CATALOG WS-01
MANY NEW ITEMS
CHECK EVERY PAGE!

ORDERING
 INFORMATION
 SEE PAGES 17 & 18

MINIMUM
 ORDER \$10.00
 + SHIPPING

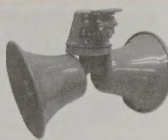
RLC Bridge



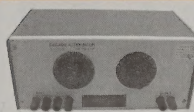
ZM-30 / URM-90 Resistance - Capacitance - Inductance Bridge, portable unit has ranges: Resistance 0.1 milliohm to 11 megohms; Capacitance 0.1pf to 1100 mfd; and Inductance 0.1uHy to 1100 Hy. Also Dissipation Factor (R/X or D) 0.001 to 1.05 and Storage Factor (X/R or Q) 0.02 to 1000. Frequency range 100-100000 Hz; 1KHz internal oscillator. Uses 6U5 eye tube as internal detector for AC measurements; galvanometer for DC measurements Requires 115VAC 50-60Hz; 10.5x11.5x11, 23 lbs sh. Used Reparable, \$85.00; Checked, \$135.00; Manual Reproduction, \$15.00

Bi-Directional Horn

Atlas Sound APT-34T is a weather-proof bi-directional horn which offers construction and acoustic properties assuring 30 watts of continuous handling capability, superior intelligibility and unparalleled conversion efficiency. Has built-in 70V and 25V transformers with screwdriver selectable wattage taps. All metal construction. Comes with mounting bracket providing positioning flexibility for vertical or horizontal. 16.5" long x 9.8" diameter. 9 lbs sh. Unused, \$79.50



Shallco Attenuator



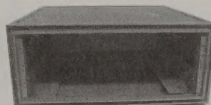
Shallco Attenuator Network #12851-1 is a 600 ohm impedance, decade type, unbalanced "T" circuit direct reading unit providing accurate performance in the low radio frequency spectrum, and usable over the range from 0 to 10 MHz. Accuracy +/- (.5% + .03 dB) of setting when checked at 1KHz. Unit has a range of 0 to 110dB in 1 dB steps and is equipped with 3/4" spacing 5 way binding posts. 7.5x12x5.3, 8 lbs sh. Unused, \$149.50

URM-120 Wattmeter

URM-120 Wattmeter measures incident & reflected RF from 10 to 1000 watts over 2 to 1000 MHz. Uses three plug-in coupler elements CU-753 (2-30 MHz, 50-100-500-1000 W), CU-754 (25-250 MHz, 10-50-100-500 W) and CU-755 (200-1000 MHz, 10-50-100-500 W) that fit TS-1285* meter. Max-insertion VSWR 1.08 (1.05 for CU-754/755, 500 W range). Power selectable on each coupler. TS-1285* has 3.5" dia meter, 0-10-50 W scale and N conn. W/transit case & manual. 5x4.8x7.3, 20 lbs. URM-120, (TS-1285 etc), used-reparable, \$175.00 URM-120A, (TS-1285a etc), used-reparable, \$220.00

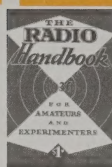


Rack Cabinet



Standard 19" Aluminum Rack Cabinet, has 7" opening for height and 20" for depth. Has two carrying handles. No rear panel. 26 lbs sh. #RC-7, Used good condition, \$54.50

Books



THE 1936 RADIO HANDBOOK by Frank Jones, Filled with diagrams, schematics, and photos of receivers, transmitters, power supplies, transceivers, tube specs, test equipment, amateur operating procedure, advertising and more. Perfect for the radio builder, collector, restorer, or amateur radio operator. 360 pp, \$19.95

OFFICIAL 1934 SHORT WAVE RADIO MANUAL, Build simple, high performance old time shortwave radios! All of the secrets are here: the circuit diagrams, parts layout, coil specifications, construction details, operation hints, and much more. This is a compilation of construction articles from "Short Wave Craft" magazine. 260 pp, \$15.95



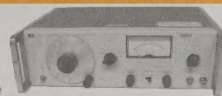
MANUFACTURE OF WIRELESS COMPONENTS, This book contains a series of articles showing you how wireless components were fabricated with simple machine tools just after WWI. There are articles on making radio parts, jigs and fixtures, fabrication of honeycomb coils, manufacturing of moulded electrical and wireless parts, and more... 64 pp, \$6.95



HP Test Oscillator

HP-652A Test Oscillator covers 10Hz to 10MHz frequency range.

Amplitude and frequency stability of the solid state capacitance-tuned unit provides high quality signals for general purpose lab or production measurements. Output is 3.16 volts into 50 or 600 ohms. 90 dB attenuator. BNC connectors. 11.3x16.8x5.2, 22 lbs sh. Used Reparable, \$125.00; Used Checked, \$175.00



Rx / Tx Controller

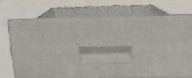
ITT Electronics #SB-4111/TSC-99 Rackmountable Receiver Selector/Transmit Controller . Allows

operator to select any two of up to five receivers and monitor simultaneously. Both left and right sections have separate amplifiers, volume controls, headphone jacks, and receiver selector controls. Each section also has a microphone jack with keyline circuit, microphone preamplifier, (gain controls on rear), CW key jack, and switched CW key monitor circuit. Requires 120VAC 60Hz, however, works on 24VDC connected to power supply rear mount test points. Input/output connects thru (2) 25 pin "D" subminiature line connector; Connection pin-out included. No top cover. 11x19x1.8, 8 lbs sh. Used Excellent, \$49.50



25 pin "D" Submini Connector with shell, used, \$3.50

Rackmount Drawer



Rackmount Equipment Drawer with adjustable glides. Sturdy steel construction. Off-white textured coating surface. Recessed handle on front. Mounting hardware included. 17" depth x 6" height. 22 lbs sh. #ED-17, Unused, \$35.00

Fair Radio Sales

P.O. BOX 1105 • 1016 E. Eureka St. • Lima, Ohio 45802
 419-223-2196/227-6573 • 24 Hr. FAX 419-227-1313
 WEBPAGE: www.fairradio.com • E-MAIL: fairradio@fairradio.com

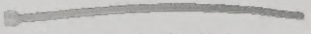
This is the only catalog that will be sent this year. A supplement will be sent in the spring and fall.

Cable Ties

VARIOUS MAJOR MANUFACTURERS

 Tie-Down Nylon Cable Tie - Ideal for fastening wiring or harnesses to chassis or mechanical assemblies. Accepts #10 screw. Maximum bundle diameter of 1 1/4". Overall length of 6". Standard 0.19" width.

#TCT-6B, Black color, 50/\$5.50; 100/\$8.00
#TCT-6N, Natural color, 50/\$5.50; 100/\$8.00

 CABLE TIES, All nylon ties listed below are common locking type and are 0.12" width.

#CT-5.5, Black 5.5" overall length, 50/\$4.; 100/\$6.50
#CT-5, Natural 5" overall length, 50/\$4.; 100/\$6.50

As above except 0.06" width. Bundle dia. is 5/8".

#CT-4, Black 4" overall length, 50/\$3.00; 100/\$5.00
#CT-4.5, Natural 4.5" overall length, 50/\$3.; 100/\$5.

 Nylon Marker Cable Tie. Overall length of 4.5" length. 0.06" width. Natural color.
#NMCT-4.5, 50/\$5.00; 100/\$7.50

See page 31 for a further listing of Cable Ties

Voltage Tester

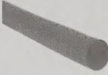
 Voltage Tester by Ideal #61-067. Tester checks for 110 to 550VAC; 110 to 600VDC; 25 to 60Hz frequency; Identifies AC or DC; Checks circuit continuity; Determines DC polarity; Finds blown fuses, grounding and leakage. Comes with the test leads featuring safety shield prod tips. 1.5x2.4x6.4, 3 lbs sh. Unused, \$25

Test Leads

 MX-1909 Test Leads with alligator clips. Each test lead is 55" long. Used in conjunction with PSM-6 and other military meters. Unused, \$4.00

Red & black panel jacks for above. #J-19, used, \$2 per set

Heat Shrink Tubing

 3/8" Dia. Alpha FIT-105-3/8 Irradiated PVC Heat Shrink Tubing, For wire harness jacketing and covering handles, capacitors, and terminals. Rated 105 degree C. 2:1 shrinkage ratio at 175 degree C. 3/8" diameter. Unused, 10 ft for \$4; 25 ft for \$7.50

Knobs Galore !!

 Raytheon style Grey Pointer Knob. Fits 1/4" diameter shaft. KNP-1, 5/\$2

 Pointer Knob for 1/4" diameter shaft. o/a 1.1" long. #KNP-2, 6/\$2.00

 2.2" long Pointer Knob for 1/4" diameter shaft. #KNP-3, 4/\$2.00

 Fluted Pointer Knob with skirt, 1.5" diameter. Fits 1/4" diameter shaft. #KNFP-1, 4/\$2.00

 1.5" diameter fluted knob with pointer. Fits 3/8" dia. shaft. #KNFP-2, 4/\$2.00

 Fluted Knob with skirt, 1.5" diameter. Fits 3/8" diameter shaft. #KNF-3, 3/\$2.

 Fluted Knob with skirt, 1.4" diameter. Fits 1/4" diameter shaft. #KNF-4, 3/\$2

 Fluted Spin Knob (less spinner - requires a 8-24 thread spinner) with skirt, 2" diameter. Fits 1/4" diameter shaft. #KNFS-1, 2/\$3.00

 Spin Tuning Knob for spline as used on ARN-6 and BC-229 and other sets that used MC-124 connections. #MC-127, \$7.50

 Dark Brown Fluted Knob for press fit shaft. o/a 0.9" diameter. #KNDBF-5, 6/\$2.00

 Dark Brown "Mushroom" style with decorative ridges. o/a 1.5" diameter. Fits 1/4" dia. shaft. #KNDB-6, 3/\$2.00

 Dual Concentric Knob Set. 0.8" dia outer knob fits 1/4" dia shaft; 1.1" dia inner knob fits 7/16" dia. shaft. #KN-DUAL, 3/\$2.00

 Lever Knob with decorative ridges. 1.7" long. Fits 1/4" diameter shaft. #KNL-1, 4/\$2.00

 Lever Pointer Knob for 1/4" diameter shaft. o/a 2.8" long. #KNL-2, 4/\$2.00

 Bar Knob with pointer, 1.8" long. Fits 1/4" flatted shaft that is center drilled for hold down screw. #KNB-1, 5/\$2.00

 7/16" dia Round Knob with brushed aluminum face. Push-on type fits 3/16" half round shaft. #KNRA-2, 6/\$2.00

 Round Knob with Brushed Aluminum Face, 1.1" diameter. Fits 1/4" diameter shaft. #KNRA-1, 4/\$2.00

 Ridged Round Knob with skirt. o/a 3" diameter. Fits 1/4" diameter shaft. #KNR-3, 2/\$1.00

 Ridged Round Knob. o/a 1.5" diameter. Fits 1/4" diameter shaft. #KNR-4, 5/\$2.00

 Round Knob. o/a 1.4" diameter. Fits 1/4" diameter shaft. #KNR-5, 5/\$2.00

 Rounded Top Knob with decorative ridges. o/a 5/8" diameter. Fits 1/4" half round shaft. #KNR-6, 6/\$2.00

 Quality Black Aluminum Round Knob with ridges. o/a 1.1" diameter. Fits 1/4" dia. shaft. #KNR-7, 3/\$2.00

 Round knob with 0-10 dial skirt, o/a 2.5" diameter. Fits 1/4" diameter shaft. #KNR-8, 2/\$3.00

See page 29 for a further listing of our knob assortment.



**GOD IS
JUST A
PRAYER
AWAY**

Fair Radio buys your excess material. We may be interested in some items in low quantities, but prefer higher quantities for our catalog sales.

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FOR ORDERING INFORMATION SEE PAGES 17 & 18

R-390A HF RECEIVER



R-390A/URR RECEIVER famous military set covers 0.5 to 32 Mhz AM-CW-MCW in 31 one Mhz bands read directly on mechanical digital counter. 455 KHz final IF; has

four Collins mechanical filters allowing 2-4-8-16 KHz selectable bandwidth. Calibration points every 100 KHz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Uses 24 electron tubes; also twinax (balanced) and type C (unbalanced) RF conn. Rackmount; LESS METERS & COVERS.

Requires 115/230 V 60 Hz. 10.5x19x16.8, 92 lbs. USED-REPARABLE, \$310.00; CHECKED, \$495.00 R-390A CHECKED with substitute meters, \$550.00 MANUAL, partial repro, \$15.00

----- Name Tags for R-390A -----

Reproduction Name Tags for R-390A radios. Multiple mfg available. New, \$17.00 each

Motorola Large Print, 3"Wx7/8"H, #TMLS390

Motorola Small Print, 3"Wx7/8"H, #TMS390

Collins, 2.5"Wx1"H, #TC390

Electronic Assistance Corp., 2.5"Wx1"H, #TE390

Stewart-Warner, 2.5"Wx1"H, #TS390

----- COVERS FOR R-390A -----

Hard to find aluminum replacement top and bottom covers for R-390A series. Very close to original.

Newly manufactured, #390-TB, \$49.50

RF Cover, Newly manufactured, #390-RF, \$12.00

Set: top, bottom, & RF; newly mfg, #390-S, \$59.50

LS-166 Speaker with large PM magnet & 600-ohm transformer. Unused, \$25.00; Bracket, \$3.00

R-390A, R-392, R-648 PARTS

Replacement assemblies & parts for military receivers:

R-390A (A) R-392 (B) R-648/ARR-41 (C)

SPECIFY receiver type & chassis part designation!

AUDIO SECTION	\$30 (B) \$20 (C)
BEAT FREQUENCY OSC.	\$20 (A) \$15 (B)
CRYSTAL CAL CHASSIS,	\$30.00 (B)
CRYSTAL OSCILLATOR (no crystals)	\$20 (A,B)
CRYSTAL BAND \$10 ea (A,B,C);	5/\$35 per Rx xtal
DIAL COUNTER	\$18.00 (A,B,C)
FILTER, MECH (A): 2Khz \$50; 4Khz \$45; 8Khz \$30; 16Khz \$24	
GEARS #39 or #21,	\$7 (A); others \$3 (A,B,C)
GEAR CLAMPS,	Small only \$2 (A,B,C)
HANDLES per pair,	\$8.00 (A)
KNOBES, small or medium size,	\$2.00 (A,C)
MHz/KHz large,	\$5 (B,C)
POTS: RF, IF AUDIO GAIN,	\$2.50 ea (A)
POWER SUPPLY without tubes	\$25.00 (A)
RF AMPLIFIER SECTION,	\$17 (C)
RF/IF TUNER less VFO,	\$95 (C)
RF OSC ASSY less crystals,	\$18 (C)
SPECTRUM GENERATOR,	\$18 (C)
TRANSFORMER, AUDIO,	\$7.50 (B,C)
, RF-IF (specify #)	\$8 (B,C)
SLUGS only (specify #),	\$3.50 ea (A,B,C)
VFO, (COLLINS),	\$65 (A) \$60 (B) \$45 (C)



VARIABLE FREQUENCY OSCILLATOR from R-390A HF receiver with 5749 tube; various mfg (no choice). 4x3x7.5, 4 lbs #VFO/R390A, used "as-is" \$22.50

I.F. DECK for R-390A with BFO, four good Collins 455 KC mechanical filters 2-4-8-16 KHz, and tubes except no RT510 ballast; 4 lbs. #IF/R390A, "as-is" \$125.00

RF AMPLIFIER DECK "AS-IS" for parts or as possible spare for your working R-390A. Includes front gear assembly, set of RF transformers with slugs and slug racks. LESS tubes, crystal oven & counter. 9x12x16, 18 lbs #RF-R390A-93, "as-is", \$40



AUDIO AMPLIFIER SECTION for R-390A receiver; includes AF transformers, chokes, C603/606 capacitors and tubes; 8 lbs sh. #AF-R390A, "AS-IS", less J620 chassis connector and tube shields, \$30.00

W-J RECEIVERS



WATKINS-JOHNSON 8716 / 8718 HF RECEIVER, 5 KHz to 29.99999 MHz AM-CW-LSB-USB-ISB continuously tunable and shown on LED

display. IF bandwidth 0.3-1-3.2-6-16 KHz. Requires 100-115/230 V 48-420 Hz. With 8718 manual copy. 5.3x19x19.4, 43 lbs sh. USED-excellent, \$2250.00

WJ-8718 option 14, Same as above except high end bandwidths 40KHz & 100KHz. Operational, \$2250

WJ-8999 Subcarrier Receiver 10KHz-1MHz, Operational with manual, \$900.00

W-J UHF RECEIVERS

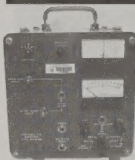
WATKINS-JOHNSON 8737 PANORAMIC RECEIVER (RU) w/DISPLAY UNIT (DU), four solid-state band tuners:

20-90, 90-300, 235-500 and 500-1000 MHz CW-AM/MAN-AM/AGC-FM. Pulse, IF bandwidth: 4-20-100 KHz; 21.4 MHz IF. RU controls COR/Squelch, Video Gain, RF/IF Gain, ON/OFF/ Audio Gain, Video Out, Phone Out, Fine tune. Display 1"Hx3"W CRT shows upto 3 Mhz spectrum. Sweep 20 KHz-3 Mhz. DU also has 6-digit freq-counter; time base provides DAFC for RU. W/ manual copy for = WJ9026; with connectors but LESS CABLES. 5x19 x26, 65 lbs sh. used-working, may not be to specs, \$1375.

WJ-8618 20-1100MHz, Operational w/ manual, \$3000



ILS RECEIVER

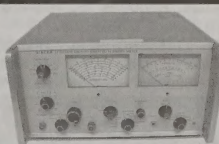


FA-8766 PORTABLE ILS TEST RECEIVER, covers 108.1 to 111.9 (5uv sens) and 329.3 to 335.0 (25 uv) Mhz with separate crystal controlled front ends feeding a common 60 mhz IF through a combiner and then converted to a 3 Mhz second IF. The RF and IF sections are in cast metal shielded assemblies.

The solid state receiver has audio and AGC detectors. The audio circuits have 90 and 150 hz bandpass filters, the audio is rectified and the output used to drive the DC meters. This unit is a good basis for modification and experimentation. Power input 120 vac or 18 vdc. Receiver has nicad battery/charger circuit. No warranty as to serviceability of battery. See our web page for more pictures. 10.1x9.5x12, 23 lbs sh. With schematic/info. Used \$49.50

RFI Receiver

Singer model #NM-17/27 is a programmable, precision electromagnetic interference/field intensity meter for the measurement of conducted or radiated RF



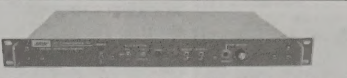
interference, within the frequency range of 10KHz to 32 MHz. May be used as a VLF unit. The instrument may be used to analyze narrowband or broadband signals within its frequency range. Field intensity or direct peak detector functions may be used for measurements in addition to quasi-peak, slideback peak and BFO detection modes. AM, FM and PM signals may be detected and are available at the video output receptacle for oscilloscope display. Requires 115/230V at 50 to 400Hz. 18.5x16.7x8.7, 55 lbs sh. Used reparable with manual repro, \$695.

NM-17/37 same as above except 20MHz-1GHz, \$995

NM-26T Stoddart type, EMI Rcvr, 150KHz-32MHz, \$595

FAIRCHILD ELECTRO-METRICS R-70B RFI RECEIVER uses 9 tuning heads covering 0.1 to 1100 MHz; with two cases & manual, \$1200.00

Noise Reduction Unit



JPS Communications NRU 500 Noise Reduction Unit originally designed to improve the signal to noise ratio of HF communications. The unit removes broadband noise, repetitive impulse noise, tones, heterodynes, and receiver birdies. The unit can be used to process any audio speech signals. Output impedance 600 ohms. Controls on front panel, power; Noise reduction-Max-med-min; bypass on-off; signal LED; in and out level adjust(scdvr); squelch; speaker; phones; monitor level. Requires DB-9 M and F, not included. power 115/230 Units are in excellent condition with current software. \$495.00

COLLINS 208U-3A

208U-3A POWER AMP automatically tunable over 2 to 30 Mhz SSB-AM-CW @ 3 KW PEP for use with URG-2 radios.

Uses 4CX5000 PA tube; tune time 6 sec nominal, 10 sec max.

With modules 333H-2 Electronic Control Amp, 309F-1

Digital to Analog Converter, 915V-2 Amp Control, 652J-13

Power Supply, 599Z-1 Test Panel and 915X-1 Control

Monitor. Includes manual copies for all components

except 915X-1 & 599Z-1.

72.5x32.6x31; 1200 lbs shipping.

NOT TESTED less 4CX5000, \$3200.00



RF-1310 HF EXCITER



HARRIS RF-1310 HF EXCITER, micro-processor controlled set produces 100 mw RF output over 0.4 to 29.9999 MHz AM-USB-

LSB-CW in 10 Hz increments; provision for 100 preset channels. LED readouts & push button entry of frequency & function & signal meter. Stability 1 pp 10 MM /day using internal 1 MHz standard. Requires 115/ 230 VAC 48-63 Hz; 7.5x19x22, 45 lbs sh Used-EXC, \$1495.00

1 KW POWER AMP

RF-110A POWER AMP, "lazily" amplifies output of RF-1310, T-827, RT-618 and similar exciters to 1000 watts PEP SSB-AM using two 4CX1500B tubes driven by two 8122's. Output adjustable down to 10 W.

Frequency selection of 2-30 Mhz in 19 bands or automatic for RF1310. Comes with system operator's manual. 12.4x17.4 x20, 95 lbs.

USED-EXC not-tested \$1295.00

Connectors for RF-110A - WRITE



PP-3916 230 VAC 50/60 Hz 3-PHASE SUPPLY for above or URT-23. Output 2250 VDC 1.2 amps, 500VDC 900 ma, 115 VAC 60 Hz 185 W, 115 VAC 400 Hz 70 W. 7.1x17.4x19.9, 160 lbs shipping. USED, \$165.00

VISIT OUR WEBSITE AT FAIRRADIO.COM

HF-80 KW POWER AMP

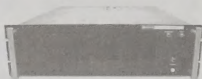


ROCKWELL HF-8023
POWER AMPLIFIER, solid-state 1 KW (avg) amp utilizes one driver plus four 250 W power modules to achieve rated output;

VSWR: 1.3:1. Designed for use with HF-8014A exciter and power supplies HF-8031 or 8032. Cables & manuals not available. HF-8023 (622-3490-207): 10.5x19x25, 62 lbs sh. USED, not tested, \$2950.00

HF-8030 (622-3383-001) POWER SUPPLY for HF-8020 power amp; 90 lbs sh. unused, \$1500.00

HF-8064 4-CHANNEL
HF PRESELECTOR,
auto-tuned bandpass
filter for HF-8054
receiver & HF-8014.
Provides front-end
selectivity & overload protection for Rx; improves
cross-modulation & out-of-band intermod. Power:
100/115/215/230 V 47-63 Hz. 5.3x19x24, 32 lbs
shipping. #622-3522-203, used, \$795.00





HF8040A AUTOMATIC
ANTENNA COUPLER,
matches antenna to power
amp over 1.6-30 MHz ISB-
USB-AM-CW 1 KW average,
1260 W PEP. Has control
logic card, vacuum caps

USLPA-500-6 & USLS-500-5 and large inductor coil.
Aluminum outdoor enclosure; 115/230 VAC 50/60 Hz.
15x39.3x21, 100 lbs

#622-3515-001, GOV'T RECONDITIONED, \$995.00
MANUAL for CU2294 (HF8040A) partial-repro, \$35.

CLASS C POWER AMP

CLASS C POWER AMPLIFIER
removed from T-195/GRC-100
watt transmitter; uses 4X150D
tube to cover 1.5 to 20 MHz in
ten bands using variable and
fixed capacitors, switches, and
400 Hz servo motor. Chassis
also has discriminator and servo amp. Requires-1000
VDC modulated, -250 VDC, -45 VDC & 115 V 400 Hz
for motor. W/tubes 4X150D, 5751, 6AQ5, 5763 and
schematic. 9.5x8.5x6, 15#. PA/T195, used, \$30



DRIVER AMP



WESTREX 9200B DRIVER
AMP uses two 8117 tubes
which drove 4CX3000A in
separate amp (not avail-
able). Continuously tun-
able 1.5 to 31 MHz; has

meter to monitor volt levels. Requires 115/230 VAC
50-400 Hz; 23x19x8.7, 150 lbs sh. USED, \$295.00

UHF POWER AMP

AM-6155/GRT-22
POWER AMPLIFIER (ITT
3212) conservatively
rated for 50 watt output
from 10 watt exciter
input over 225-400 MHz;

uses Eimac X6512/8930 or Amperex DX393 tetrode
(no choice) in silver-plated cavity-drawer; 175-turn
TUNE counter dial. Main chassis has solid-state
power supply and buffer amp/multiplier; panel meter
monitors voltages. Requires 105/120/210/ 240 VAC
50-400 Hz and +20 V reg 60 ma. +20 V keyed;
w/schematic info. 7x19x18.5, 80 lbs sh.
USED-excellent-NOT TESTED, \$235.00



602-999 MHz Amp.



AM-1957 AMPLIFIER-
OSCILLATOR, 601.5 to
999.5 MHz plug-in for T-
893/GRC-50 transmitter.
Utilizes three 7289 tubes
as 651-1049.5 MHz oscil-
lator, -50 MHz mixer and
15 watt power amp.
Directional coupler

detects Reflected Power and provides monitor
output for external meter circuit. RF passes
through duplexer having identical receive/trans-
mit sections each with two cavities. (Receive signal
routed to separate AM-1955 receiver module.)
Transmit RF then moves to second directional
coupler which detects Reflected Power also with
output for external meter. Wavemeter samples
output RF for frequency measurement using cal-
ibration chart. Cathode current of each 7289 regu-
lated by external 250 VDC, 650 VDC, 800 VDC, 5.7
VAC, 5.5 VAC. Schematic and info included.
8.9x11x16, 36 lbs shipping USED, \$65.00

AM-1955B/GRC AMPLIFIER CONVERTER used
with R-1148A/GRC-50 receiver for 600-1000 MHz
band; 60 MHz IF. Uses 4037A/2C40A tube as
oscillator; also 5654, 2/5842. W/ wavemeter &
calibrate book. Requires 150 VDC, 6.3 V. 15x9.5x8,
30 lbs sh. \$30.00

100 to 225 MHz AMP

AM-912/GRC AMPLIFIER-
MULTIPLIER plug-in for T-
302/TRC transmitter; covers
100-225 MHz FM @ 100+
watts using 4X150A tube.



Controls Grid & Plate Tune and Amp Output
Coupling. Requires +750 V, 200-350 V screen, and
6.3 V filaments; with schematic. 12x6x14, 24 lbs
used, \$69.50

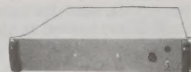
AM-915, 225-400 MHz; 4X150A, 4X150G. \$85.00
AM-1178, 400-600 MHz; 4X150A 4X150G. \$75.00

AM-914/TRC AMPLIFIER-CON-
VERTER, plug-in for R-417 receiver
in 225-400 MHz range. Continuous
tuning of RF and oscillator; 30
MHz IF. Modify and use as down-
converter! With tubes 5670,
4/6J4. Requires 150 VDC & 6.3 V. 7.5x6.5x9.5;

15 lbs sh. USED, \$35.
AM-1179/GRC, 50 to 100 MHz, used, \$39.50
AM-1177/TRC, 400 to 600 MHz, used, \$44.50
AM-3203A/TRC, 1.35 to 1.9875 GHz, used, \$49.50

HF Receiver Amplifier

HF Linear Receiver Amp,
2 to 30 MHz dual channel
solid-state unit amplifies
RF signals for receivers
to "pull in" the weak sta-
tions for the shortwave listeners. Each channel is
capable of 1 to 1.5 watts with gain of 20 DB. Ideal
basis for QRP projects, receiver preamps and
exciters! Tuned circuits could be put between the
cascaded channels. Each channel consists of plug-
in modules: input bandpass filter, preamplifier,
power splitter (2 emitter followers), power amp, and
monitor amp. TO-5 style transistors; connectors
are TNC but could be replaced with single hole
mount BNC. Aiken mfg; schematic N/A. Requires
115 VAC 50-400 Hz; 3.25x19x19, 30 lb
#AE-3300-42889, used-rep \$99.00



RF Amp / Preselector



TN-612/G Prepost Selector,
consists of RF preselector
and broadband power
amp. Pre-selector oper-
ates in four bands 1.8-3.6,
3.6-7, 7-14, and 10-24 MHz.

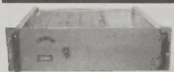
Microprocessor-controlled unit has no front panel
controls except ON-OFF and indicators for OV DE,
OVL, ATT, BITE, TUNE plus silver-plated coils and 3-
gang variable capacitor. Frequency is selected by
twelve Kilovac HC-1 vacuum relays and nine mini-
coax relays along with motor interface adapters.
Relays actuated by driver transistors. RF power
amp uses four transistors S15-28, T9-0664 and two
MRF-466 as output amplifiers. P/o GRC-215 HF-SSB;
no further info. Requires 115/230 VAC 50-60 Hz;
4.5x19x17, 46 lbs Unused, \$250.00

HF Pre-Post Selector

RF-551A PRE-POST
SELECTOR highly
selective bandpass fil-
ter for 2-29.999 MHz
range functions as pre-
selector for enhancing receiver signal reception or
as post selector for reducing exciter output noise
when used with 6 db pad (not supplied). 5-decade
freq-control knobs & Hi-Lo Gain switch; N conn. Req.
115/230 VAC 47-420 Hz; 5.3x19x20, 36 lb
used-nice, \$350.00; Manual, partial repro, \$20.00



UHF PRESELECTOR



F-1506/G UHF Tunable Band
Pass Filter/Preselector cov-
ering 225-400 MHz dial
tuned. Consists of Lark
Engr. FX4000-089 filter with N conn in rackmount
package. 5x19x18, 25 lbs sh. Used, \$95.00

FAA Transmitter

UHF Transmitter FAA We
do not know anything
about these except that
they are exceptionally well
built. Please see the pic-
tures on our web site. Has
output transistor MRF325
and driver transistor MRF321. Federal stock #5825-
00-140-2735. Model AN/GRN-27. Part #917800-1.
Radio Navigation. Mfg by Texas Instruments.
5.9x14x4.5, 11 lbs sh. Units are in good physical
condition, untested. \$35.00



GRT-21/22 Transmitter



VHF Transmitter simi-
lar to above except
uses MRF316. Units
are in good physical
condition, untested.
\$35.00

T-1109 Transmitter from AN/GRT-22 Radio Set.
Frequency coverage is 225-400 MHz AM in 3500 chan-
nels. The crystal controlled transmitter has 10 watts
output. Associated amplifier is the 50 watt output AM-
6155 listed on page 4 of our catalog. Requires
120/240 VAC. 18x19x5.3, 50 lbs sh. Used, \$49.95

T-1108/GRT-21 Transmitter same as above except 116-
150 MHz in 680 channels. Associated amp is AM-
6154. Used, \$50.00

Schematic Pack for T-1108/T-1109, \$15.00

T-195/GRC-19 TRANSMITTER, 1.5-20 MHz AM-CW-
FSK; 100W max. Requires 22-30 VDC 42 A for
dynamotor; less VU-meter, 135 lbs. used, \$225.00

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

Aircraft Receiver

R-761/ARC-58 RECEIVER covers 2 to 29.999MHz, companion receiver and exciter to T-730. Req. 115 VAC 400 Hz input. 7.8x10.3x23.5 55 lb used, \$135. SCHEMATIC, \$10.00

C-3141 CONTROL for freq-select; 6 lbs. USED, \$25. CONNECTORS for above \$7.50 ea. w/ set purchase



MODULES from AN/ARC-58 or TRC-75 radio sets. Each 4.8x4.5 x1.5, 2 lbs sh. USED-not tested: AM-1523 AMPLIFIER DETECTOR, 4x 5899 tubes; p/o R-761, \$17.50

AM-1525 or AM-1733 ELECTRONIC CONTROL AMPLIFIER p/o T605/T-730 xmitter, \$15.00 ea

AM-1526, similar to AM-1523, \$17.50 ea

AM-1528 AMPLIFIER-MIXER for R-761 with ten tubes and slug rack, \$45.00; Schematic, \$3.

AM-1529 AMPLIFIER OSCILLATOR with Collins mechanical filter P455 Z1, \$28.00

CV-465B MIXER OSCILLATOR, for R-761; oscillators master 70H13A, interpolation, spectrum generator Mech filters F455 Q2 & Q3. \$55. Schematics, \$10.

CV-465C MIXER OSCILLATOR, \$75.00

MD-286A BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. \$35.00

SG-179A/URC REFERENCE GENERATOR, \$35.00

ARC-60 ITEMS



R-508 AIRCRAFT RECEIVER, 118 to 148 MHz AM continuously tunable, but does not have dial; tuned remotely using control box with MC-215 flex spline (not available). 15 MHz IF; binding post & BNC antenna

connections on front. Tubes 12A6, 14A7, 14F7, 214R7, 9002, 3/9003. Same as R-19; p/o AN/ARC-60 & ARC-type 12. Requires 250 VDC 60 ma & 28 VDC. 6.5x5x11.8, 15#. Used \$20.

C-22 CONTROL 108-136 MC dial & crank. Used \$15

O-423/AR OSCILLATOR-RELAY provides 1 KHz tone for "whistle-thru" tuning of ARC-60. 3.9x5x2, 3 lbs. UNUSED, \$15.00



CV-431/AR FREQUENCY TRANSVERTER, p/o ARC-60 set: receives RF in 228-256 MHz range and converts them to 118-148 MHz for reception on R-19 receiver. Also transmits over 228-256 MHz AM on 8 crystal channels; 1/2 watt output.

(Crystals not included.) With tubes 3/5763, 6201, 6360, 6939. Requires 28 VDC and +250 V. 4.8x4.8x11.5, 9 lbs. UNUSED, \$22.00

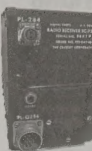
ARN-30D VHF Receiver

R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); original part of air navigation system.

1st IF 11.7-12.6 MHz; 2nd 1.7 MHz. Electrically turned crystal turrets with frequency displayed on side panel. Adjustable squelch; 300 ohm audio out. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5899, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10 lbs. USED, \$29.95



BC-733 RADIO



AIRBORNE RADIO RECEIVER BC-733 is designed to operate at six fixed crystal-controlled tuned frequencies of 108.3, 108.7, 109.1, 109.5, 109.9, and 110.3 MHz. When tuned to any of these frequencies the receiver is capable of accepting CW radio frequency power, AM at 2 audio frequencies, amplifying and

delivering it as audio frequency power to a filter rectifier network where the two audio frequencies are separated and applied to an indicator.

13.4x5x7.1, 22 lbs sh. Used, \$59.50

Manual repro, \$12.00

DM-53-A Dynamotor less base for above, \$6.00

Sonobuoy Receiver

R-1170/ARR-52A VHF RECEIVER

162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels.

Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF.

Conversion possibilities for 2

meters, VHF weather, satellite TV, etc.

(See Oct '74 CQ Mag.) Requires

external control and 18 VDC. 7.5x2.5x10, 9 lbs.

USED, \$19.95. SCHEMATIC, \$4. w/ set.

MANUAL, partial repro, \$15. w/ set.



ARC-51BX UHF TX-RX



RT-742/ARC-51BX UHF AIRCRAFT TRANSCEIVER, 225-399.99 MHz AM in 3500 available channels, 50 KHz spacing; also has guard channel. Output 16 watts min. RF impedance 52 ohm input & output. Audio and mic impedance 150 ohms.

Doesn't include ID-1003 SWR indicator; separate control box necessary for function & freq-selection. W/ tubes 4/ 7077 and 4/ 7544; requires 27 VDC 13 amps. 7x9.5x15.1; 35 lbs. USED, \$150.00

ARC-109 Transceiver

RT-749/ARC-109 UHF AIRCRAFT TRANSCEIVER, solid-state Collins unit operates on 225-399.95 MHz AM, DSB and A3 phone @ 30 watt min. 3500 available channels in 50 KHz intervals plus 243 MHz guard channel. Uses 4631 tube in P-A; 150 ohm audio/mic impedance. C-6364 control necessary for channel select; cables & racks not available. Replaced

ARC-27-34-51-52. Requires 115 V 400 Hz 3 phase. 6.8x9x16, 29 lbs. Used reparable, \$350.00

SCHEMATICS f/RT-749, repro, \$12.00

C-6364/AR CONTROL, used, \$45 w/set purchase.



FM TRANSCEIVER



MAGNAVOX FM-622 (RT823/ ARC-131) Airborne Transceiver, covers 30-76 MHz FM in 920 channels, 50 KHz steps. Output 1 watt in LO; 18 W max HI @ 29 VDC RT has Squelch Disable & Adjust, Test switch. Meter monitors +24 V+16 V. AGC-RF FWD- RF REFL-OFF. Control box provides channel select, Volume, Squelch, OFF-TR-

RE-TRAN HOME switch. Has some modules common to RT-524/VR-12. Requires 24-29 VDC 4 amp max. Rack & cables are N/A. 7.8x5.9x15.6, 31 lb used w/control box, \$250.00

COLLINS 618T



COLLINS 618T-2 SSB AIRBORNE TRANSCEIVER, 2-29.999 MHz SSB-AM-CW in 28000 channels. Power output: 400 watts SSB-PEP 125 W AM-CW; 52 ohm output imped. Sensitivity SSB: 1 uv for 10 db S+N/N. Selectivity

SSB: 2.85 KHz, 6 db down; 6.0 KHz 80 db. Audio input: 600 ohms. Uses two 4CX250's in P-A. Switch & meter monitor internal power. Separate control necessary for channel select. Racks & cables not available.

Requires 115 V 400 Hz 3 phase 1 KVA & 1 phase 160 VA; also +27 VDC 4.5 amps. W/ manual repro; 7.6x10x22.2, 58 lbs. used reparable with K9 osc, \$495

#618T-3, like above but requires 28 VDC 35 A and 115 V 400 Hz 1 phase 100 VA. USED, \$600.00

MODULES FROM COLLINS 618T HF TRANSCEIVER, as removed from equipment-not tested:

AM AUDIO AMP #546-6053, has mech filter F500 Y60 (526 9378); 2 lbs sh. \$40.00

IF TRANSLATOR #544-9286, has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376), \$65.00

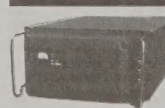
KC- FREQUENCY STABILIZER, has mechanical filter F250 F100 (526 9410) and crystal filter X250KF440 (526 7006); 3 lbs sh. \$35.00

RF TRANSLATOR with K9 oscillator, 15 lbs., \$200.

618T RF REFERENCE OSC. MODULE, includes 3 MHz crystal oven which is divided to 500 KHz output, amplified and then divided again to produce 100 KHz output. 4.3x6x2.7, 2 lbs sh. #528-0251-005, used, \$35.00

RT-712/ARC-105 HF TRANSCEIVER, pressurized 618T2; modules interchangeable. Covers 2 to 29.999 MHz SSB-AM-CW in 28000 channels. Front has hour meter, C and BNC connections. Separate control needed for freq-selection. Connectors not available; same power input as 618T2 10.5x11.5x23, 70 lbs. used, \$325

SSB HF TRANSCEIVER



RT-594/ARC-38A AM-LSB-USB HF TRANSCEIVER, 2.0 - 25 MHz using 20 preset channels with autotune channel change. Stabilized master oscillator allows possible

35250 channels in intervals 500 Hz (2.0-7.25) and 1000 Hz (7.25-25 MHz). Output 100 W PEP < 14.25 MHz; 90 W > 14.25 MHz. SSB sensitivity 1.5 uv for 10 DB S+N/N. Selectivity 3 KHz min 6 DB dn; 8 KHz max 60 DB. Has 25 tubes with 3/ 6159 in P-A. Requires +28, +600, +250, -50, -65 VDC & 6.3 VAC; Also 115 V 400 Hz for selfsyn on inductor. 15.5x8 x25, 80 lbs. USED, \$175.00 Manual, repro, \$22

COLLINS 618S1, similar to RT-594/ARC-38A except not SSB; crystal-controlled (no VFO). USED, \$75.00
SETTING BOOK for C-1398/C-3428 control, repro, \$10

COLLINS 180L3 AUTOMATIC ANTENNA COUPLER for use with ARC-38 or similar racks in 2-30 MHz range @ 50-180 W. Automatically resonates antenna to radio frequency and couples RF. Includes 7-1000 pf 3 KV vacuum variable capacitor & 140 V variable ribbon inductor; UHF connector. Requires 28 VDC 3 amps, 250 or 400 VDC 5 ma & 115 V 400 Hz 20 VA. 10.5x7.8x11.5, 24 lbs sh. Used, \$90.00 Manual repro, \$15.00



PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

Collins VHF Tx-Rx Set



AN/ARC-73 AIRCRAFT RADIO SET designed by Collins; consists of T-879 (17L-7A) transmitter, R-1123A (51X2B) receiver, C-4074 (614U) control and MT-2699 rack. T-879 covers 116 to 149.95 MHz AM in 50 KHz steps (680 channels) with 25 watt output to 133.95 MHz and 20 W min. above. Sidetone level 100 MW into 500 ohms; mic impedance 100 ohms. R-1123A covers 108 to 151.95 MHz in 50 KHz steps (720 channels). Sensitivity 3 uv; audio output 500 ohms. Both have antenna input impedance of 52 ohms and require 27 VDC (7.3 amp max transmit) power. Both utilize tubes and transistors. C-4074 control sets frequency on mechanical counter and has Volume, Squelch, and On-Off functions. Mating connector not available. MT-2699 rack is unused but is missing connectors. Operator's manual and schematics included; 9.5x8.5x16, 40 lb used, \$149.50 T-879 TRANSMITTER only; 20 lbs sh. USED, \$69.50 R-1123A RECEIVER only; 19 lbs sh. USED, \$75.00 C-4074 CONTROL BOX for frequency select, volume control, etc; w/ set purchase. used, \$12.50

USB Receiver-Exciter

RT-662/GRC-106 TRANSCEIVER, 2 to 29.999 Mhz USB-AM-CW-FSK; tunes using 5-decade mechanical switches to 1 KHz steps + vernier. Exciter output 100 MW. Controls: Service Selector, PA Load, Squelch, Noise Blanker, BFO and audio functions. LESS Signal Level meter. Requires 24 VDC 10 amp; 7x18x13, 56 lb sh. USED: "AS-IS" not tested/LESS meter, \$275.00



"CHECKED" with meter (not original), \$450.

RT-834/GRC-106A, similar to RT-662 above but 2-29.9999 Mhz, 0.1 KHz increments. USED: "AS-IS" no meter, \$300.00 CHECKED w/meter \$495.00

GRC-106 MODULES for RT-662 and RT-834, most modules available except 1A3 Freq-Standard removed from "used" radios. Specify module # and RT #; 2 lbs sh each. Price: UNTESTED, \$20 ea Add \$20 per module for "CHECKED" modules.



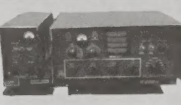
AM-3349/GRC-106 POWER AMP for RT-662/834; amplifies 100 MW RT output to 200 W AM or 400 W PEP. Uses two 4CX350FJ tubes. Requires 28 VDC 1 KW max; 77 lb used-AS-IS, less meters, \$400

MANUALS, partial repro: GRC-106/106A, \$40.00 OPERATOR'S for GRC-106A, \$10 H-33/PT HANDSET, used-checked, \$17.50 M-29B MIC, used, \$12 H-227 Headset, \$17.95 LS-166 SPEAKER, Unused, \$25. Wall bracket, \$3.00 AB-652 MAST BASE, 6 lbs sh. USED, \$20.00 MT-3140 MOUNT & SIDE PLATES, 25 lb. Used, \$35. CX-10099 INTERCONNECT CABLE, used, \$20.00 CX-10171 ANTENNA CABLE, 4 lbs. Used, \$22.00 MX-7777B Suppressor see pg 23 for descript. \$17.50 AN/UGC-74 TELETYPEWRITER, used, \$85

MD-522A/GRC MODEM, modulator-demodulator for GRC-106/106A HF radios and teletype writers TT-4A, TT-76, TT-98, UGC-4 or UGC-74. Permits transcription of voice, narrow (NSK) or freq (FSK) shift keying, freq-diversity and NSK +voice. One-way or duplex Send-Receive. Internal loop voltage 120 VDC 60 ma max. Has 2BP1 CRT, U-77 mic & 600 ohm audio connections. With original vol-current meter for customer to install. Req. 24 VDC 1.4 A; 7x18x13, 41 lb used, \$165.00 Manual repro, \$25.00; Power Connector, \$7.50



2-15 MHz Transceiver



AN/GRC-165 RADIO SET (HARRIS 301/302), solid-state unit covers 2 to 15 MHz USB-LSB-AM-CW in 1 KHz steps; output 100 watts PEP SSB, 25 W AM nominal into 52 ohms. Consists of RT-902 (RF301) transceiver, CU-1782 (RF302) antenna coupler, C-7648 remote box w/speaker, two shockmounts, four 4 ft antenna sections, AB-1082 mast base, AC & DC power cables. RT-902 controls PA TUNE PRESELECTOR and 4 decade FREQUENCY SELECT. Also MIC connection and built-in speaker. Requires 115/230 VAC 50-60 Hz or 24 VDC. CU-1782 is manually tuned with 3-digit LOAD and FINE TUNE counters. Also COARSE TUNE 1-10, 0-200 wattmeter and FOR-REF POWER switch. Uses 10 uH & 18 uH roller inductors, fixed capacitor banks and SWR bridge. C-7648 has built-in speaker & handset connection. RT: 7.8x18.5x14.3, 65 lbs. CU: 7.8x5x14.3, 9 lbs. SET sh wt: 125 lbs. USED-REPARABLE, \$545.00

GRC/VRC EQUIPMENT



RT-68/GRC TRANSCEIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed

1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh. USED, \$115.00 RT-67 TRANSCEIVER, 27-39MHz, USED, \$99.50 RT-66 TRANSCEIVER, 20-28MHz, USED, \$89.50

PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. Case may have casting chip(s); 7.3x9 x13, 39 lbs sh. USED, \$27.50.



PP-109 SUPPLY, 12 VDC 12 A input. USED, \$35.

CX-1211 INTERCONNECT CABLE, RT: PP units, \$9.



R-108/GRC RECEIVER, 20 to 28 MHz-FM continuously tunable with variable squelch; 4.3 MHz I.F. Audio output: 600 ohms. RF input: 50 ohms. With tubes 3/1U4, 2/1L4, 1A3, 2/3A4, 1S5, 2/3Q4, 2/6AK5 & 0B2. Requires 135 VDC @ 70 MA. and 6.3 VDC 2 amps. 7.5x9x13; 32 lbs shipping. GOV-T-RECONDITIONED, \$55.00

R-109 RECEIVER, same as R-108 except 27-39 MHz. Used, \$45.00

GRC AUDIO AMP

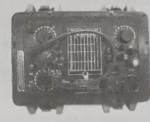


AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70 transceiver; also works as power supply when PP-281 or -282 modular supply is installed inside AM-65.

4.4 x 8 x 13, 17 lbs sh. USED, \$22.50 GOV-T-RECOND. \$50.00

PLUGS for RT70/AM65 interconnect, used \$3.50 ea

GRC-109 Transmitter / Supply



T-784A/GRC-109A TRANSMITTER, 3 to 22 MHz CW in bands 3-6, 6-10, 10-17 and 17-22 MHz at 10-15 watts depending upon frequency. Crystal control; tuned by adjusting 3 panel controls to tuning chart. Built-in CW

key; uses 72 to 1200 ohm single wire antenna. Has code burst capability, if used with GRA-71 (not available). Tubes 2E26, 6AC7. Requires 450 VDC 100 ma and 6.3 V 1.2 A; 8.6x5.5x5.5, 14 lbs sh. Used, \$125.00



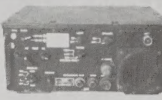
PP-2684/GRC-109 POWER SUPPLY provides voltages for RT-3/T-784 and R-1004/RR-2 from 75-260 VAC 40-400 Hz or 6 VDC 13 amp input. Meter monitors AC input; connections for RX and Tx. 10x8.5x5.5, 28 lbs sh. USED, \$29.95

PP-2684A, Similar to above except larger case. used, \$32.00

MANUAL for GRC-109, partial repro, \$17.00

CN-590/GRC-109 VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord with PL-244 plug; 4 lbs sh. USED, \$14.95

30-75 MHz FM RADIO



RT-524/VRC TRANSCEIVER, standard FM military vehicle radio since 1960's; operates over 30 to 75.95 MHz FM in 50 KHz steps in two bands. Out-put: 0.5-

8 W (LO), 30 W (HI). Has squelch, built-in speaker. Requires 24 VDC 10 amps. Includes MT-1029 mount, power cable and handset. 15.4x6.5 x13.5; 78 lbs shipping.

Used not tested, \$625; RT-524A, \$675 Manual repro for RT-524, \$40.00

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R-442/VRC RECEIVER 30 - 75.95MHz FM RECEIVER. 920 50 KHZ CHANNELS. Has noise and tone operated squelch. Normally used with antenna system AB-15, MS 116, 117, 118. Power connections through MT-1898 mount and DC power cable, CX-4720 which are included. 13.5 x 5.8 x 8.9, 31 lb sh. Used Reparable \$300.00.



TRC-68 TRANSCEIVER



RT-441B/TRC-68 Transceiver 225-400 Mhz AM. 1960's vintage transceiver, basically same as RT-323/VRC-24, rated 16 watts minimum 225 to 400 Mhz. As pictured, no case, no dynamotor/power supply. Voltages required 26.4vdc 125 vdc 300 vdc.

Utilizes the following tubes. 75670 10/5654 6442 4x150d 7554 6/614 6/5670 4/ 5763. 15.2 x 9.5 x 10.2, 47 lb sh. Excellent condition \$200.00 Reproduction of maintenance manual \$35.00

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2-12 MHz USB 100 Watt



RT-671/PRC-47 HF TRANSCEIVER, 2 to 11.999 MHz USB (voice and CW+800 Hz) in 1 KHz steps.

Output 100 watts PEP (Hi) or 20 W (Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x21.3x13.5, 45 lbs. USED, \$150.00

MANUAL for PRC-47, partial repro, \$25.00
AS-1321 LONG-WIRE ANTENNA, 3 lbs., \$15.00
H-33/PT HANDSET, used-checked, \$17.50
LS-166 SPEAKER, Unused, \$25.00
CX-8396 "Y" CABLE for H-233 to RT, \$8.00
CX-8393 50 ft AC Cable, \$12.00
CX-8395 Battery Cable, \$8.00
BACKPACK FRAME only with harness, \$12.50
BB-451 SILVER CELL BATTERY, 24 VDC 25 AH for PRC-41/47, 15 lbs sh. UNUSED, \$225.00
CY-3700 ALUMINUM TRANSIT CASE, 65 lb \$28.00
PL-177WA TUBE USED STT, \$25.00

MODULES from RT-671/PRC-47 transceiver. Used not tested:

AM-3506 AUDIO AMP has mic, sidetone, vox and compressor circuits of TX; AGC & audio for Rx. Requires 20 & 24 VDC. 4.3x4.3x2.8, 2 lbs. \$15.00



AM-3507 AMPLIFIER MODULATOR contains LSB 500 KHz mech filter F500-Z5 (#526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. \$35.00
Connector set \$6.00

C-4311 CONTROL OSCILLATOR, 3 lbs. \$25.00

CV-1377 SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. \$50.00

O-1032 RF OSCILLATOR contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1 lb sh. \$20.00

PP-3518 POWER SUPPLY, 16 lbs sh., \$25.00

PRC-41 MANPACK



RT-695/PRC-41 UHF MANPACK UHF TRANSCEIVER, 225 to 400 MHz AM in 100 KHz steps counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state except for tubes 6442, 47077, and 47544. Requires 24 VDC 3 amps; 14x11.3x4.5, 22 lb. used reparable, \$149.50

MANUAL for PRC-41, partial repro, \$20.00
H-33/PT HANDSET, used-checked, \$17.50
MT-2977 VEHICLE MOUNT for PP-3700, 4#, \$9.00

PRC-25 Backpack Radio



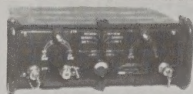
RT-505B/PRC-25 TRANSISTORIZED BACKPACK TRANSCEIVER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing. Output: 1.1 to 2.0 watts; 150 Hz squelch. Transistorized except 2DF4 tube in power amp. Requires 3 VDC 400 ma and 15VDC 1.4 amp supplied by BA-4386 battery. RT-505B has modified A25 audio module for broadband use with C-7673/PCC-1 and CU-2194 diplexer. 4x11x14, 18 lb USED-complete, \$300.00
MANUAL for RT-841/PRC-77/25, partial repro, \$20.

AT-892/PRC-25 RIBBON ANTENNA, used, write AB-591/PRC RUBBER BASE for AT-271, used, \$7. BA-4386/PRC BATTERY f/ PRC-25-77, "weak" 3/\$5. BB-5598 BATTERY, 1995 X-date (no UPS or air), \$4 CW-503/PRC ACCESSORY BAG, used, \$7.00
H-250 HANDSET or = for PRC-77/25, USED, \$18.00
Original Op's Manual f/ PRC-77 & AM-2060, \$15.00

AN/GRM-55 TEST SET, used to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, CX-8593 cable assy and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8, 10 lbs sh. GOV'T RECONDITIONED, \$54.50



6 METER DIPLEXER



CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network; allows simultaneous use of two transmitters, receivers, or transceiver on a common antenna provided that operating frequencies are slightly offset. Usable over 30-76 MHz FM for use with PRC-25-77 & VRC-12 transceivers; will work commercial 6-meter equip. Has NULL METER, TUNE controls, Fine-Coarse-Monitor MODE Switch and RT1-RT2 BNC connections. Unit may function as man-portable relay terminal. Maximum RF power to each channel: 65 watts continuous. Operational isolation: 45 DB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x7, 10 lbs. shipping. UNUSED, \$69.50; ORIGINAL MANUAL, \$10.00

PRC-6 Handheld

RT-196/PRC-6 FM TRANSCEIVER, Israeli 1950's vintage single-channel crystal-controlled in 47 to 55.4 MHz range. Output good to about 1 mile depending on terrain and weather conditions. Handheld unit has push-to-talk switch, Volume Control, ribbon antenna, carrying strap and connection for H-33 handset. Uses CR-23 crystal (not included). With tubes 6/5678, 3B4, 3/5672, 2/5676 and 2G21. Requires 1.5, 45 and 90 VDC usually supplied by BA-270 battery (not supplied). 15x5x4.5, 6 lbs, used, \$99.50

Original Manual for PRC-6, \$10.00

CRYSTALS for PRC-6, specify 1st, 2nd and 3rd choices of desired working frequency, \$8.00 ea.



PRR-9/PRT-4 Radios



GOV'T RECONDITIONED each single channel I with crystal for 51 MHz FM: #PRR-9 RECEIVER with earphone, antenna, & operator manual. Requires 5 V 25 ma battery power; 7x3.5x1.5, 3 lb. \$40.00

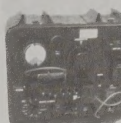
Manual repro for PRR-9/PRT-4A, \$15
Horn speaker for PRR-9 Unused, \$5.

AN/PRR-9 (XE-9) SET, updated PRR-9 with "squelch"; requires 3 VDC input from BA-4534 battery (not available). With AS-1998 ant, earphone, lanyard & operator's book; 6 lbs sh UNUSED \$89.50

AN/PRT-4 w/ antenna & battery box, Used, \$20

AN/PRT-4 "AS-IS", less crystal, antenna, and battery box; for parts or experiment, \$8.00





ID-1189/PR CHANNEL ALIGNMENT INDICATOR for testing AN/PRR-9 helmet receiver and PRT-4 transmitter. 47-57 MHz FM signal generator; checks both sets' batteries. Operating info & probe included in cover; 12x11.5x6, 16 lbs used \$65.00

PRC-75 Radio

RT-976A/PRC-75 UHF TRANSCEIVER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-CW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design frequency accuracy 1 part / 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accessories; 1.6x4.3 x8, 6 lbs. Look nice, complete but not working, \$125.00



AS-2447/PRC-75 RIBBON ANTENNA, fastens to RT-976/PRC-75 225-400 MHz handheld transceiver; 14.6"L. snap fasteners. NEW, \$10.00

UG-1884/PRC-75 ANTENNA ADAPTER, allows for BNC coax antenna connection. NEW, \$9.95

SEM-52 Handheld



German-made unit can operate on six preset channels (2 supplied) in 47- 56.975 MHz FM range @ 300 MW; 25 KHz spacing. Has Off-On-Squelch (AUS-EIN-RSP), Volume & Channel (KANAL) select. Requires six AA-batteries. Includes RT, 35" ribbon antenna w/ flex base, "web" headset-mic and carrying bag. May

not comply with FCC regulations. 7.1"Hx 3.4"Wx1.5"D, 4 lbs shipping. used-clean not-tested, \$125.00

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DUAL UHF CAVITY



DUAL SILVER-PLATED UHF ANTENNA COUPLER CAVITY part of system which allowed four receiver/transmitters (140 W) to use single antenna. Each cavity 14.5"x6" dia has quarter-wave variable stub (0.2" per turn X 28 turns) over 225-400 MHz. Input & output loop-coupled; cavities aperture-coupled. Also 8 tracking slugs. Unloaded Q = 4000, loaded Q 700. Insertion loss 2 DB. (We attached a disk to the moving stub which reduced frequency to below 140 MHz.) Unit has electro-mechanical drive for 19 preset and one manually selected frequency. With weather-tight aluminum cover. Requires 28 VDC, 6.3 VAC, 115 VAC 60 Hz for motor and chopper. 15x9.5x24, 45 lbs #C-SRA-33, used w/info, \$49.50

C-4586/SRA-33 CONTROL-POWER SUPPLY with cable for above, 45 lbs. USED, \$75 w/set purchase.

AN/SRA-33 COUPLER SET in heavy aluminum frame. Includes four cavity-coupler units, power supply, cables, RF selector switch, four power meters & manual. 48x22x27, 350 lbs. USED, \$225.00
MANUAL for SRA-33, partial repro, \$15.

490T-1A COUPLER



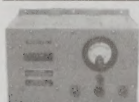
COLLINS 490T-1A (CU-1669A) AUTOMATIC ANTENNA COUPLER for 618T and similar 2-30 MHz transceivers; rated RF input 630 W PEP, 200 W average. Matches 25 ft or longer whip or 25-100 ft long-wire antenna to 50 ohm line. Terminal for wire and "C" coax connection. Has 5-500 pf 10 KV vacuum variable capacitor and variable step-coil. Requires 115 V 400 Hz; 7.6x10.1x12.6, 24 lb used not tested, \$450.00

H.V. Power Supply

PP-638 High Voltage Power Supply. Part of TRC22/28 and supplied 1100 VDC 325 MA, 230 VDC 60 MA, OR 225 VDC 40 MA. 6.3VAC 5.2 amps. Power input 115/230 V 60 Hz. Contains three transformers each has 115/230 v primaries. Secondary TR1, 2500 VCT 450 MA, TR2, 5 VCT 10 Amp, TR3 6.3 V 10 Amp. Also has motor type time delay, various relays and control circuits. Plate voltage meter and test meter. Tubes 2/3B28 6y6G keyer. With Schematic and info. 225 lbs sh. Cannot be shipped UPS. Unused \$350.00; Used good condition \$250.00; Original manual \$12



600W POWER METER



ME-165/G STANDING WAVE-RATIO POWER METER, designed for use with T-368 400 W transmitter; uses 12/ 600 ohm 50 W non-inductive resistors in parallel to provide 52 ohm 600 W load with SWR of 1:1.1 or less upto 30 MHz. Has 0-600

Watt meter, function switch Power-Adjust-SWR-Operate, & N connections. Flanged on back for wall mount. 1.5x9.8x9.8, 20 lbs
GOV'T-RECOND, \$125.00; Manual, repro \$8.50
ME-165/G, USED-GOOD-looking, complete, \$45.00
ME-165 (or =), USED-POOR-looking, \$25.00

PRC-90 TEST SET

AN/PRM-32A RADIO TEST SET for AN/ PRC-90 UHF & PRC-106 VHF survival radios. Requires one radio as receiver and another as transmitter. Tests 243 MHz frequency for beacon, transmitter MCW-voice and receiver outputs. Also Tx-Rx voice outputs for 282.8 MHz (PRC-90) and 121.5 MHz (PRC-106), earphone & battery test. Has 1.8" square meter with Red-Green scale, Tx-Rx connector adapters for hook-up & operator's info. 3x 5x4, 3 lb Used, \$27.95; Manual repro, \$8.50



MILITARY BATTERIES



NOT RECHARGEABLE:

BA-40 for BC-620/BC-659 receive section, +90 and +1.5 V; 6 lbs weak \$4.50

BA-48 for Rx section of RT-77/ GRC-9; 6-CD & 60 A-cells, 1.5 & 90 V. 10x2.2x4.8, 8 lbs Weak \$4

BA-314 for PDR-27F, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x1.3x2.5; 1 lb., \$1.25

BA-416 for PDR-27C, +22.5-67-90-135 V; 10/84 date. 4x3x2.8, 2 lbs sh. \$5.95; "Weak", 2/\$4.00

BA-4386 for PRC-25-77, 12.5 VDC; 3/80 date. 3.5x9.5x2, 3 lbs sh. "WEAK" only, 3 for \$5.00

Rechargeable Nickel Cadmium Battery for PRC-68/68B/ 126/128 radios. 15 Volts 0.80 AH at 0.16 A. Date Code: 11/89. 1.5 x 4.3 x 4, 3 lbs. #406870-1 Unused, \$32.50

Military Nickel-Cadmium Battery Pack, four D-cell batteries in plastic pack produces 4.8 V 3.2 amp-Hr; 3/80 date code. 3.5x5.5x1.5, 3 lbs. #4D2704, 3 for \$7.00

PRC-77/25 Battery

BB-5598 LITHIUM BATTERY for RT841/ PRC-77/25 radio; output 12.5 VDC. Two BB's fit RT battery box. Has discharge switch to make non-reactive after final use; 1995 expire date. Class 9 hazardous item; USPS Shipping ONLY. 3.5x4.8x2.1, 2 lbs sh. Unused, \$4 ea; 2/\$6.50, 2/\$6.50

BB-490 Battery/Charger

Lead Acid Battery Pack with Charger, consists of two BB-490 military batteries each rated 24VDC (2x12 VDC) 1.8 Amp-Hrs @ 0.35 amps; AM5-H6 charger fits on top of BB-490 or similar batteries and shows "charging" and "ready" on LED indicators. MPS-CH2 charger power supply output 16VDC 1.5 A from 115V 60 Hz input. BB-490 used in PRC-104-117, etc. radios; 4.3 x 5 x 2.5. Kit 9 lbs sh. New, \$19.95; 3 for \$50.00

GRC/PRC Battery Test

AN/PSM-13 BATTERY TEST SET: checks GRC and PRC-type battery packs BA-270, -279, -376, -377, -4386/ 398/ PRC-25, -399, and -505. Meter indicates BAD-GOOD (FS=1 MA). With adapters U-240, -241, -314, -315, -347, -410 & canvas case. 7 lbs. USED, excellent, \$24.95

BATTERY BOXES

CY-7541/PRC-104 BATTERY BOX, plastic box clips onto PRC-104 backpack radio set and will hold 16 silver-zinc (or =) batteries that provide 20-32 VDC. Side unscrews to insert batteries; 3.8x12.5x2.6, 4 lbs unused, \$35.00

CY-6327A battery box for PRC-66 backpack transceiver. 2.6x10.5x5, 3 lb unused, \$14.95

AA-BATTERY BOX for Trimble Navigation Trimpack GPS receiver. Clips onto & allows operation of GPS from 8 - AA batteries (not included). 1.6x 6.5x1.5; 1 lb. #GPS-13828-00, NEW, \$22.00

Canvas Bags & Covers

BAGS & COVERS may be used or unused. May have minor wear, tears or discolor:

SHOULDER BAGS with adjustable straps; USED:
BG-175, 10x8x10.5, \$6.00
CW-189, 10x9x10, \$5.00

ANTENNA ROLL BAGS for mast sections, used:
BG-56 for MS-49 thru 56, \$14.00
BG-174 for MS-116 etc, \$7.50
CW-206 for MS-116 etc, \$7.00

GRC/VRC EQUIPMENT COVER
CW-140 for GRC-9, used, \$10.00
CW-329 for GRC-3-8, NEW, \$8.00

6" Strap 1.5" wide with spring clip. #S-6, Unused, \$5

Radio Cables & Connectors

CX-4720/VRC DC Cable, 10 feet, \$12.00
CX-4722/VRC Control Cable, 5 feet, \$10.00
CX-4723/VRC Control Cable, 1 foot, \$7.50
CX-7867 AUDIO CABLE, 25' U-229 /-228, \$10.00

CX-10526 35" long two conductor 8 gauge cable with a standard GRC 4 pin female connector for T-195, GRC-106, etc. on one end going to two battery terminals on the other end. The 4 pin connector is a commonly used on many GRC equipment for power in. 2 lbs sh. Unused, \$14.00



GRC/VRC MALE CONNECTORS, specify type and equipment used. USED-out-offs:
Strain type, \$7.50 each; Crimp type, \$3.50

AUDIO CONNECTORS: U-77, \$4.00 U-229, \$5.00

MIL SPEAKERS

GRC/VRC SPEAKERS have 4" dia cone, large PM magnet & 600:8 ohm transformer in cast-aluminum case w/ cable & audio plug. 5.5x3x3, 5 lb Used:

LS-454 w/ U-229 for PRC-25-77, \$18 unused, \$26.00

LS-166 with U-77 plug for R-392, GRC-3-8, unused \$25.00; Bracket, \$3.00

LS-445 4" SPEAKER, ruggedized 8 ohm 2 W permanent magnet type; 300-7000 Hz response. Pull out of LS-166; 3 lbs. USED \$7.95

AM-6747/V AMPLIFIED SPEAKER for monitoring audio of R-442, RT-246/ 524 radios from remote location. Connection for H-189 or H-250 handset to allow remote keying of transmitter. Requires 28 VDC; can be modified for 12 VDC. Similar to AM4979; 5.6x5x3 + 2" top bolt; 6 lbs. UNUSED, \$35.00

AM-4979/GRC, similar to AM-6747 except has 6 ft cord with U-229 plug. USED-CHECKED, \$30.00

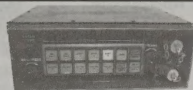
AM-4949/U AMPLIFIER, a microphone amp in vehicle intercom systems using VRC-12 radios. Usable with M-80 mic, H-189/250 handsets, H-161 headsets or similar. Two connections for U-229 plug, Volume, ON-OFF, and power light. Requires 28 VDC; 4.5x4.5x3, 5 lb. unused, \$22.50

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

MILITARY INTERCOM

AN/MIQ-1(V)3 INTERCOM and/or Radio Remote Control Panel. Part of mobile or field communication control system.

Appears to be a recent issue. Has 14 lighted push buttons to select designated inputs and outputs. Front panel mounted headset connectors which accept U-77 plugs. Has three multi-pin Bendix type connections mounted on the side. One 10 pin female, one 15 pin female, and one 32 pin male. 10.8x10.9x3.8, 17 lbs. Used, \$39.95



C-375 CONTROL

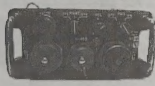


Control box for radio sets GRC-3-8 or VRC-8-10. Unit is a remote junction point and switching unit for the control and audio lines to two sets. 3.2 x 6.8 x 7, 6lb, unused, \$22

C-375 and WM-46, Ten Conductor #14 Control Cable for C-375 and other GRC radios. 30 foot, 16 lbs, unused, Both \$42



REPEATER CONTROL



MX-9331/URC provides the data regeneration and radio control capabilities required in a digital secure voice tactical radio repeater station. It requires low

power input, making it suitable for portability and battery operation. It operates in push-to-talk VHF and UHF transceiver radio nets and provides an automatic retransmission function without operator intervention. Operating with encrypted digital signals, the unit recognizes a valid received digital signal from one of the two radios, accomplishes timing recovery and data regeneration, and keys the transmitter of the repeating transceiver. 9.8x6.2x3.1, 8 lb, used, \$40

CONTROL BOXES

C-2298/VRC INTERCOMMUNICATION CONTROL used in RT-524/VRC installations with AM-1780 amp; monitors three radios A-B-C. Volume control and two connections for U-229, 5.8x4.5x3.3, 4 lbs sh. USED, \$20.



C-434 LOCAL CONTROL p/o GRA-6, used, \$24.00
C-435 CONTROL for duplex GRC-3-8; used, \$15.00

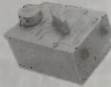


C-87/ART-13 Control Box for ART-13 transmitter. Has 11-position CHANNEL selector, OFF-VOICE-CW-MCW select, PTT button and IC jack. 3.5x6.3 x3.3, 3 lbs. UNUSED, \$16.50

SB-327/ARC CHANNEL SELECTOR 24-51.9 MHz FM in 100 KHz steps on 3-digit counter; used with RT-294/ARC-44 Tx-Rx. 3x5.8 x4.5, 3 lbs sh. used, \$15



SA-474/AR SWITCH BOX, \$7.00



BC-366 JACK BOX, switch "Comp-Laison-Command-Inter-Call", Increase Output pot, 2 phone jacks. 3.3x4.8x3, 2 lb, used, \$7.95

RM-52 REMOTE CONTROL for radio and intercom set. Has transformer, mic & phone jacks. Source for "Macy's Phone Patch" project. 7.3x3.5x5, 5 lbs. USED, \$4.

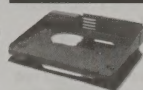


BC-1361 SWITCH BOX, p/o RC-298 interphone kit for SCR-528/628 radios in Sherman tanks. With Call light, Field-phone terminals, On-Off & Signal switches; 6.8x5.4x2, 4 lbs sh. UNUSED, \$8.00

BC-631 JACK BOX remote audio control for SCR-522; 4x2.5 x2.4, 2#. NEW \$5.



Radio Mounts



MT-1029/VRC Vehicular Mount for RT-246 & RT-524/VRC -12 transceivers 5x12.5x16 19 lbs. USED, \$29.50;
GOV'T RECONDITIONED, \$45

MT-1898/VRC MOUNT for companion R-442 receiver 5x6x12.3, 15 lbs. USED, \$25. RECOND, \$32.00

MT-327 MOUNT holds one RT-66-67-68, one R-108-109-110, one PP-109-112; 32 lbs sh. USED, \$28.00

MT-6147/ARC-164 MOUNT, retrofit ARC-164 into ARC-34 mount. Rear rack connector & front plug for ARC-164. 5x13.8x11, 11 lbs. USED, \$25.00

MT-299/VRC-10 Rack with junction box. Cables on the junction box are CUT OFF! Holds one RT-66, 67, or 68 and one PP-109, or 112. 35 lbs. USED, \$30

FT-237 Mount for BC-603/604 from the SCR-508 radio system. 13.2x35x4.4, 48 lbs sh. Used, \$75.00

MT-3114 Shock & Vibration Mount for R-1051, RT-618, AM-3007 and similar Navy radios. 19.8"W x 16.5"D top & bottom aluminum platforms w/ four large rubber piston shock absorbers good for 200 lbs; Barrymount"; 16 lbs sh. UNUSED, \$25



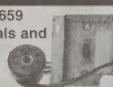
Carrier Monitor



Unit is used for remote check of xmit-ter operation. Good parts including 600 VDC 35 ma transformer; tubes 0A2, 6AL5, 6J6, 6X4; 600:600 ohm AF xformer, DPDT & SPST toggle switches two 49 pf trimmer caps, etc. LESS 3 pf 15 KV vacuum capacitors 6x8.5x6.3, 12 lbs sh. #CAR-MON-87, unused, \$5.95
#CAR-MON/VC, above with vacuum capacitors, \$15

BC-620 / 659 Accessories

M-399 ALIGNMENT ADAPTER for BC-659 transceiver; allows changing of crystals and alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs sh. \$5



M-394 Adapter f/ BC-620, \$5.00

ALIGNMENT TOOLS for BC-620/659: TL-150 or TL-207, \$5.00



MC124 20" TUNE SPLINE, \$10.00
MC-136, RIGHT ANGLE, \$4.50
MC-203 T adapter for MC-124, \$7.50

FIELD WIRE

WD-1A/TT FIELD WIRE by French mfg. on DR-4 steel reel; 5200 ft twin lead vinyl covered steel wire for EE-8, TA-43/312, TA-1, TA-838. Reel 20" dia; 70 lbs. sh UNUSED, \$125.00



TERMINAL BOX



The TA-125 Terminal Box is a small, light weight, weatherproof unit which contains 4 rows of 12 push type binding posts and 2 rows of 24 pin type jacks. The cover is hinged at one end of the box and secured in the closed position by a spring-loaded latch at the other end. The terminal box provides a quick and easy method of monitoring, testing, and patching telephone, teletypewriter, and other circuits in forward field areas. Also, serves as a small main frame for Switchboards SB-22/PT and SB-86/P. 13.8x5.5x2.4, 8 lbs sh. used, \$19.95

Sound Power Phones

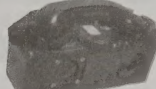


TA-1/PT TELEPHONE, sound-powered unit requires 2-conductor field phone wire connected to another TA-1 for communication without batteries. Palm-operated generator provides approx 100 V to "buzz" signal another phone; also visual indicator. Has coil cord with push terminals for wire hook-up and plastic carrying case. 8.5x3.5x3.5, 4 lbs shipping. USED-CHECKED, \$35 ea. 2 for \$60.00
UNUSED, \$55.00 ea. 2 for \$95.00

TA-312 Field Phone

TA-312 FIELD TELEPHONE

rugged light-weight unit replaces famous EE-8 field phone and is usable with them. Includes G-42 crank generator, BZ3 clacker call signal, H-60 handset, and canvas carrying bag w/ strap. Requires 2 D-cell batteries (not supplied.) 12x7x4, 12 lbs. USED-CHECKED, \$75. MANUAL for TA-312, partial reproduction, 8.50



TA-838 FIELD PHONE



TA-838/PT MILITARY FIELD TELEPHONE has push-button numeric tone pad and is designed for 2- or 4-wire communications; replaces old EE-8 and TA-43/312 field phones. Ringing signal audible only in 4-wire hook-up. TA-838 also operates over standard telephone lines but won't ring. Rugged thermoplastic construction; requires four C-cell batteries. 6x9.8x5, 8 lbs.

USED-CHECKED, \$69.50; Ops MANUAL \$10.00

TA-941 PHONE

TA-341/TT TELEPHONE SET push-button 4-wire unit for use with tactical switches using four C-cell batteries; usable in conventional point-to-point telephone line (plug may need changed) Range >3.2 km. Signal out 900-3400 Hz digital tone; 90 V 20 Hz signal in. W/case; 4.5x10.5x10.5, 10 lbs. shipping USED, \$27.50



TA-954 PHONE

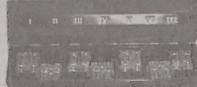


TA-954/TT NON-SECURE DIGITAL VOICE TERMINAL used in Tri-Tac comm-system; 4-wire set xmits and receives diphasic-modulated digital voice & loop signaling info at 16K or 32K bits. 125 ohm line impedance 125 ohms; range 4 km using WF-16 field wire (no stock).

Requires 24-56 VDC. Also operates over standard telephone lines but won't ring. Tone pad characters 0-9, FO-F-I-P-R-O-C; also Volume L-H Ring - Receive & H-250 handset. Plastic case EMI/EMC static protected. 7.3x4.5x10, 8lb used-repairable \$50

Manual Switchboard

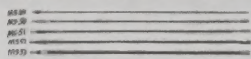
SB-993/GT Manual switchboard, designed for quick "connect / disconnect" of up to



six battery or sound-powered field phones (such as EE-8, TA-1, TA-43/312) plus and operator unit. Consists of seven U-184/G terminal plug-jacks that plug into "stack" onto rear of another U-184. Active lines make neon lamp in U-184 "glow". Also includes MT-2156/GT metal case; 1.3 x 12 x 3, 6 lbs sh. Unused, \$24.95

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

MAST SECTIONS



3-FOOT MAST SECTIONS (left), WW-2 & Korean War

vintage: painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. May have surface rust; MS-49-50-51-52-53, used \$3.00 ea BG-56 canvas bag, \$14.00

+++++ MS-116-117-118 MAST SECTIONS, each 39.3" L. MS-116 is stackable bottom section, MS-117 middle and MS-118 tapered top; fit AB-15, AB-652, MP-65 & UG-558 bases. 1 lb ea. Used, \$3.50 ea; Unused \$5.50 ea

AB-21-22-24-MAST SECTIONS, similar to MS-116-117-118 except 27" length each. AB-21 is bottom & stackable section; 1 lb each. Used, \$3.25 ea

+++++ GRA-50 ANTENNA MAST KIT f/ GRC-106A radio; includes 3 each MS-116 and 1 ea MS-117 & MS-118 sections, AB-652 base, polyethylene cover sheath & CW-206 roll bag; 18 lbs sh. USED, \$35.00

2 1/2 foot Wood Guy Stake from the popular AB-155 top mast kit. Four stakes were a part of the mast kit. 1 1/2 inches diameter. Has a protective metal ring around the top. 3 lbs sh. Used good condition, #WGS-30, \$4.00 each; 4 for \$12.00

MX-381/GRA-4 GUY ROPE, 40 ft long; 3/16" nylon 800 lbs-test; w/ hooks & insulators, used, \$4.00 MX-382 31 ft, \$3.00; MX-383, 50 ft, \$5.00

MAST BASES

AB-154/RC-292 Swivel Base with Base Plate. Used with AB-85 and MS-44. This assembly consists of a yoke and clevis pin. The lower mast section is placed over this tubular section. The yoke and clevis pin allows the mast assembly to be lowered to the ground by pivoting about the stake. The base plate has three cleats for fastening the guy ropes. 5 x 6 x 17, 3 lbs sh. #AB-154-PL, Used, \$12.95



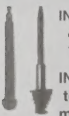
AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 masts; rubber flex spring with 3.3" Lx3" dia ceramic insulator & bottom terminal. Mounts in 2" dia hole. O/a 15" L, 3 lbs sh.

Used with small chips in the ceramic insulator, \$8.00 Unused with no chips, \$30.00

MP-65 MAST BASE, similar to AB-15 except 4" L x 3" dia insulator; o/a 17" L; 4 lbs sh. USED, \$12.00

UG-558 BASE for MS-116-117-118; mounts to SC-D-189023. 16" Hx6" dia; SO-239 conn. USED, \$10.

MP-68 MAST BASE, makes ground plane antenna when used with combinations of AB-21-24 or MS-116-118 whip masts installed as three radiating elements plus one vertical. Has center 3" dia ceramic feed-thru insulator with UHF connection and sockets for elements. Clamp on bottom allows installation on top of 1.6" dia masts like AB-35 (RC-292) or MS-44 (AB-155). 13" Hx5" Wx5" D, 5 lbs Used, \$29.95



IN-127 ANTENNA BASE holds 3/MS-116 & 1 each MS-117-118 for RT-77/GRC-9; 14.5" L black plastic. 2#. USED \$12.

IN-106A BASE for MS-56 mast; clamps to SCR-284 WW-2 radio. Top & bottom terminals; brown plastic, 14" Lx3" dia, 3#. \$8

MOUNT BRACKETS



BRACKET for mounting 2" dia antenna bases like AB-15 to vehicles or other flat surfaces. Rear mounting surface is 5.5" W x 19.5" H; Base hole center extends 5" from rear. Has two 1.1" diameter holes on rear mounting surface. 13 lbs. #AB-449, Used, \$10

BRACKET for mounting 2" dia antenna bases like AB-15 to vehicles or other flat surfaces. Mount plate 6.3" W x 4" H; base hole center extends 3.9" from plate. 4 lbs. #SM-B114371, UNUSED, \$10.00



AB-450 mount bracket accepts 2" diameter antenna bases such as the AB-15 or MP-65. Mounts to flat surfaces. 4.3x6.5x3.1, 4 lb sh. \$5.00

COUNTERPOISE

CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lb Used, \$12.00



GY-12/42 GUY ROPE SET, 3x20' lengths, Used, \$7.00

M378 ROPE, 80', \$6.00; M379, 10', \$1.50

LOOP ANTENNA



AT-784/PRC DIRECTION FINDER LOOP ANTENNA for use with PRC-25 -77; covers 30-76 MHz in five bands. Controls FINE TUNE 0-10 MHz in 1 MHz steps and ATTENUATOR 0-40 dB in 10 db steps. Includes AT-1082 loop with whip, CG-2840 & -3344 cables in CW-445 canvas bag. Collapsed size 8x6x3.5, 5 lbs. USED, \$34.00

PRC-Type Antennas

AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET for PRC-8-9-10; 2 lbs sh. UNUSED, \$15.00

SHORT FLEX BASE only for AT-272A, used, \$3.00 RIBBON only for AT-272A, used, \$8.00

AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) \$4.

AT-20 ANTENNA FOR PRC-68B, USED, \$20.00

37.5" Ribbon Antenna for PRC-126 and PRC-128 but not PRC-68. 2 lbs. #37695721553-3, Unused, \$12.00

RIBBON ANTENNA for PRC-6 radio, USED, \$8.00

M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long antenna, \$4.00

AT-5001/PRC WHIP f/ Canadian CPRC-26, used \$8.

UHF Dipole Antenna



AT-413/TRC DIPOLE ANTENNA for 225-400 MHz, originally part of large array. T-top elements extendable 3" each end to adjust reception; 20" max T-width. Mount flange moves to adjust height. Type C connection on bottom. O/a 15.5" H, 12 lb UNUSED, \$16.00

30 Foot Mast Kit



AB-1244/GRC MAST KIT, twelve aluminum alloy on steel sections form sturdy, yet lightweight 30 foot 1.7" dia mast. Kit includes five each lower and upper sections, one ea lower and upper adapter sections, gin pole swivel base, four ea 36 and 42 ft guy ropes, four guy stakes, two guy rings plus a 2.5 pound slide hammer. Part of OE-254/GRC antenna set; 30 lbs sh. NEW, \$139.50



HEAVY DUTY NYLON BAG, ideal for the AB-1244 mast kit

along with MANY other applications! (See page 10 for a description and price on the AB-1244) High quality Cordura Nylon is coated for water repellency, rot and is mildew resistant. Bag has 1 1/2" web handles that wraps around bag for added strength. Two zipper slides for easy opening. Overall size: 44" long x 9" deep x 7" tall. 3 lbs sh. Colors available: Black, Navy Blue, Red, OD Green, Woodland Camouflage. PLEASE SPECIFY COLOR. #BG-1244, New, \$39.50 each; 3 for \$99.50

AS-1729 Parts

AT-1095 UPPER MAST; 64" L, 4 lbs. USED, \$12.50

TIE-DOWN KIT for AS-1729 including tie-down rope and plastic cap for AT-1095, NEW, \$8.00

MANUAL for AS-1729, partial repro, \$8.50

MOST SPRING only for MX-6707; 4 lbs. USED, \$10.

MOUNTINGS for MX-6707 p/o AS-1729, USED:

SCD-189023 f/ base, \$10.00

#SCD-446058 corner, \$10.00

EXTENDER for SCD-446058, \$6.00

Long Wire Antenna

AS-1321/PRC-47 LONG WIRE ANTENNA 45 ft vinyl-covered with insulators at 15" and 25"; clips at insulators adjust length. Designed for use with 150 W HF transceiver; 4 lbs. Used, \$16.00



DIPOLE FIXTURE part of PRC-74 long-wire antenna set. H-shaped has 25" vinyl-covered 2-conductor copper wire. Used with 15 W HF Tx-Rx; 2.5x12x1, 3 lbs sh. #DP-MK-911, UNUSED, \$6.

AN-22A LONG-WIRE, 20 ft W-29 wire with snap hooks; p/o SCR-177/188 (BC-191). 2 lbs. \$4.95

RC-432/G Reel Only from long wire antenna set. Terminations on each end to allow other RC-432's to connect together. 4.3x2.7x12.5, 2 lbs sh. #RC432-RO, Unused, \$8.95



NAVY CABLE ANTENNA

AS-3379/BRR WIRE-CABLE ANTENNA, probably dragged behind ships or submarines as VLF-LF antenna. Consists of 125 foot long 5/8" dia coaxial cable with 8" L cast aluminum mounting shank and special RF connector which could probably be changed to common N or C connector. Suitable also for under or above ground use. No further info; 23 lbs.Used, \$39.



CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

AS-2236 Log Periodic



AS-2236/GRC ANTENNA SET, light-weight with minimal guying makes this 30 to 76 MHz low-power log-periodic antenna excellent for field day! Rated 65 Watt with VSWR 3:1, 50 ohm impedance. Array mounts on 35 foot mast and unfolds to 10 ft square.

Includes antenna, six 44.5" Lx2.75" dia aluminum mast sections, two 44.5" L x 2.75" dia fiberglass sections, pivot for horizontal or vertical polarization, folding tripod (10.5 ft square) with foot pads, six stakes, three screw anchors, guy ropes, and set-up info. Array may have repairable wire "breaks"; 100 lbs shipping. (UPS in 2 pkgs.) USED, \$125.00
ABOVE with "NEW" array: AS2236-DM, \$155.00

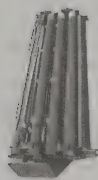
AS-2851 Log Periodic

AS-2851/TR PORTABLE LOG PERIODIC ANTENNA/20 FT MAST KIT. Mast kit has

2 fiberglass sections to make 20 FT mast. With guy rope and swivel base. Log periodic antenna has 71 inch boom, shortest element is 34 inches, longest is 98 inches. Probably 26 to 177 Mhz - no specific data. 38 lbs sh. Used \$145.00



HF ANTENNA SYSTEM



AS2482/TSC-60 HF RECEIVE ONLY ORTHONAL ANTENNA SYSTEM consists of two crossed sloping dipoles 90 degrees apart with a pair of baluns at the top of the mast. Four 62 inch long mast sections 2.75" dia for 18 ft mast. Includes mast, junction box, 2/24 ft RG-213 cable, 4 stainless stakes and 4 chromed stakes. Accessories in case 31x22x8 shipping two packages 70/50 lbs unused \$325.00

PHANTOM ANTENNA

A-62 PHANTOM ANTENNA, electrical network used in place of antenna to tune BC-604 20-28 MHz xmitter. Adjust INCREASE and MAX-MIN; ANT & GND terminals. 7"Hx4" diameter.

4 lbs shipping. USED, \$19.95



BLADE ANTENNA

UHF/XPONDER AIRCRAFT BLADE ANTENNA for 800 to 900 MHz range. Type N connection; 5.8x6x2.2, 2 lbs sh. #C1320-25-2, UNUSED, \$22.00



AS-2485/ARC-114 BLADE ANTENNA used with 30-76 MHz ARC-114 radio set; BNC connection. 24"H x 42"L, 15 lbs sh. #5985-168-8383, UNUSED, \$79.00

LF-DF Antenna



AT-780/ARN-59 DIRECTION FINDER ANTENNA, 190 - 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx selsyn for drive direction. Operates in circuit on 26 V 100 Hz. W/ 14

error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5, 8 lbs. USED \$32.00

#NG-AT780, above no glass, \$22.00

AS-313/ARN-6 DF ANTENNA, similar in function to above, but earlier design; 10x11x5, 18 lbs sh. USED, \$30.00



HY-GAIN ANTENNA



HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES, include 52" whip, 2.5"H spring base, 18" RG-58 coax cable, PL-259 connector & UG-175 reducer; 5 lbs sh. unused, \$9.95 ea: #761 (30-33MHz) #767 (33-36 MHz)

KATHREIN K50-54-4 WHIP, 64-470 MHz; cut 4 foot length; 1-hole mount, 15' RG-58 coax. 4 lbs. \$15. + + + + + TELESCOPING CHROME ANTENNAS, \$2.50 each: #TCA95-380, 9.5"L to 38"L; 6-32 thread mtg screw #TCA84-144, 8.4"L to 14.4"L; 5/32" dia base hole #TCA60-125, 6"L to 12.5"L, 10-24 thrd mtg screw

GUY TIE-DOWNS

GUY TIE-DOWNS for securing antenna masts, tents or other items. Each has 4" based triangular steel head with 1.5"L x 3/8" dia driving shaft on base. Head has 28"L steel wire with reinforced loop for attaching guy. Tie-down driven into ground by hammering a pipe (not supplied) slipped over the driving shaft; 3 lbs #4-TD-98, NEW, \$4.00 ea; 4 for \$12.00



Steel Guy Assembly



50 foot 3/16" steel braid wire with 2 heavy-duty snap hooks on 17" lg steel bracket. Includes locking pulley and

tension adjuster; flanges for storing guy. Designed for mil-antenna or other support uses; 8 lbs sh. #SMD-423629, USED, \$16.95

BUDWIG

HYE-QUE



BUDWIG HYE-QUE antenna insulators & strain connector for long-wire set-ups; full legal power capacity & weather-tight polymar construction. #HQ-CONN strain assembly with PL-259 connection for lead-in wire drop. NEW, \$6.95 #HQ-INS-PR, insulator pair, NEW, \$1.75/ pair



VIS-O-GLOW NEON LIGHTNING ARRESTOR, 1.8x4.3x1.3; Branch #1003, \$4.00

Cellular Antenna



Cellular Mobile Antenna by Antenna Specialists with trunk lid mount. 824 to 896 MHz with 3DB gain. Antenna capable of adjusting 25 degrees any direction. Antenna has a female TNC connection. Kit comes with 15 feet of RG-58 cable with a male TNC connection on one end, cord clip, mylar tape, bracket channel, a separate TNC male connector, and allen wrench.

Antenna with mount stand around 30". 3 lbs sh. #ASP-917, Unused, \$18.95

Yagi Antenna

7 Element Yagi Antenna by Antenna Specialists Model #ASPJ2996 covers



928 to 960 MHz. Antenna can be mounted for vertical or horizontal polarization. Has SO-239 connection. Designed to be mounted to a mast. Comes with mounting hardware. Overall length of around 21". 3 lbs sh. Unused, \$19.95

Hydrogen Generator



M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grs of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas.

(EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) Cans are dented; suitable only for recovery of calcium hydride. 11.6"L x4.3" dia, 4 lbs. UNUSED-dented, \$8.95 ea; 2/\$15. INFLATION TUBES for M315B, \$3.00 ea

BOX KITE

Kite is also used for lifting wire antenna; has 15"Wx12"H distress orange plastic poly-vinyl panels on metal frame. Stands overall 36"H x 15" square; sturdy frame can be re-covered with silk or similar light fabric. Includes panel repair kit; 3 lbs sh #SEB-42ABK, unused, \$24.



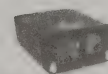
Antenna Tether Wire



306 FOOT SPOOL of vinyl-covered braided #22-size intended for use with above; usable on the ground as long-wire antenna also. On spool; 3 lbs. sh. #SEB-400X3, unused, \$12.95

Impedance Match

CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped designed to mount to aircraft wing. Holds two AT-624 antenna elements (not available); 50 ohm BNC-conn. P/o AN/ ARA-31 24-49 FM MHz homing set; 4.3x3.3. 2# . UNUSED, \$7.00



KY-149/AR KEYER, couples homing antenna to radio; requires 28 VDC. Has a 28VDC globe 60 RPM gear motor. 2.3x7.7x4.9; 3 lbs Unused, \$14.95

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HEADSETS



MATROX/TANDBERG headset intended for language lab use; 200 ohms total. Has padded headband and very comfortable 4" dia covered foam cushions. 7 ft cord with 1/8" dia dual circuit plug; 2 lbs sh. #HS-38086, NEW, \$9.95

HS-32 STRAP HEADSET, one 250 ohm R-18 element, w/ PL-55; for TG-5 keyer. USED, \$8.

H-264/PRR-9 EAR-PLUG HEADSET, coil cord & 2 mm dia jack; 300 to 2500 Hz response. NEW \$4



H-227 HEADSET w/ two 300 ohm elements in 4" x 3.5" vinyl cushions, 42" coil cord, and U-77 plug. Used with GRC-3-8, GRC-106 radios. OD-green & black; 2 lbs. USED, \$17.95

TELEX PH-11 600 OHM single headphone w/ 3.5" x 4" vinyl-covered foam cushions & padder headband. 60" L. 2-conductor cord has 3-pin Lemo FGG.1B connector; 2 lbs sh. Used-excellent, \$16.95



HS-16A WWII Style Military Headset by Murdock, olive-drab, cloth covered, with adjustable double steel band. Headphone impedance is 520 ohms nominal. Consists of dual magnetic element with plastic cap and shell earpieces. 54" brown cloth-covered cord w/dual nickel plated pins. Unused, \$19.95

H-63 HEADSET & BOOM MIC, 600 ohm receive & 100 ohm M51 mic elements; with JJ-055 and 3-pin jacks. 3 lbs. UNUSED, \$14.95



H-113 600 OHM HEADSET, similar to CW-49507 except O.D. green color with cushions and PL-54 plug on 18" cord; 3 lbs. sh. unused, \$7.95; 2 for \$12.00

H-16 HEADSET, designed for use in high-noise areas such as tanks, replacing HS-30. 250 ohm elements with matching transformers produce 8000 ohm (series) impedance. Similar to H-65 expect 18" cord PJO-54 plug. unused, \$10



D410SL 600 OHM HEAD- PHONES, low-cost comfortable language lab-type headset which unfortunately has plastic headband that breaks easily. We will ship 2 for price of 1.

NO RETURNS / NO REFUNDS! 2/57

VRC-12 HEADSETS

for RT-246/524, R-442, PRC-25-77 radios with U229 plugs; 150 ohm ear-phone impedance:



H-251 HEADSET w/ vinyl cushions, 24" coil cord and U-182 plug; black color. USED, \$12.00 UNUSED, \$18.00

H-161E HEADSET with 300 ohm boom mic, push-to-talk switch, & CX-8652 Y-coil cord; vinyl cushions. BLACK UNUSED, \$59.50



HS-30 HEADSET 250 ohm impedance light-weight WW-2 era set has cord wired to CD-604 500:4000 ohm matching transformer and PL-54 plug; 3 lbs sh. USED, \$9.95

H-5002 HEADSET / Canadian CRPC-26 radios. One phone, head web & plug. \$8.00



H-195 HEADSET & BOOM MIC, rubber-covered single 300 phone element, 40 ohm mic & push-to-talk switch. Similar to H-144 except has 10 foot cord with PJO-55 & -68 plugs; 4 lbs sh. UNUSED, \$25.



WIRELESS

HANDS-FREE HEADSET for two-way FM radio communications in high noise environments. Uses throat mic and ear cushions with



EPA noise-reduction rating of 23 DB. Operates on 49.86 Mhz; controls for Volume & Squelch, Velcro adjustable head web and mic straps, 6" antenna and fiberglass case. Requires two 9 V batteries; 6 lbs #7800H, NEW, \$74.50

ULTRA-LIGHT HS



STARSET OPERATOR'S HEADSET, ultra-light set fits over the ear with flexible voice tube. Has push-to-talk switch on 4 ft coil cord w/ dual 1/4" dia plug. Includes spare ear tips, glasses clip & pouch; black color. #MS50762-30-2, NEW, \$34.50

#ACS MICROSET HEADSET, similar to above but light beige color. #ACS-SM-HS, \$34.95

CTE49214 headphones / WW-2 MAB radio; no scull cap, \$7.50

MICROPHONES



GENERAL ELECTRIC MIC from highway patrol vehicles; PTT switch has "C" and "S" positions. Also has amplifier circuit & coil cord w/ DB-9 connector; 2 lbs. sh. USED. #GE-CS-MIC, \$8.00

GM DELCO MIC for mobile communications; black w/ PTT switch, coil cord & 5-pin male connector. #GMDL-MIC, new \$7.



T-45 MIC Carbon type 100 ohm 50 db below 1 mv, flat response with PL-291 two contact male plug, 11" cord. UNUSED, \$3.00

T-30' THROAT MIC w/ elastic strap; no clip. USED-chkd., \$15

CW-51071 LIP MIC for CW49507 or H-62 headset; 100 ohm, \$4.

M-29B MIC with U-77 plug; for T-195 T-368, etc. USED \$12.00

M-52 MIC with 5 foot cord & PL-68 plug. UNUSED, \$8.00

M-80C MIC, unused, \$14

Low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mount; 5/8" dia 27 threads/ inch. Cannon XL-3-11SC connector; 2 lbs sh. USED: #M-2A, \$7.95 #M-43-EV, Electro-Voice, \$8.95

#M-43-UL, University Loudspeaker mfg. \$12.00

CX-3094 MIC CORD with mating connector for above; 3106-14S-7P 3-pin male on other end. 25 ft USED, \$7.50

MT-596 TRIPOD MIC STAND for above. Used, \$10 ea; 2 for \$16

WW-2 CHEST SETS UNUSED. H-12, \$7; T-26A, \$7; T-46/DT3, \$7

MI-2462 SOUND POWER CHEST MIC only, Navy-type PTT; 18 ft cable, 6 lbs. \$15.00

JT-85 HAND MIC by Joyce Electronics has "look" of WW-2 round black RS-38 mic with PTT switch on top. Coil cord has M642/5-1 (=PL-68) plug. Used, \$16.00



RS-83 Mask type Aircraft Microphone by Telephonics. Mic is Hi-Z (100K ohm) and has a 16.5" cord with a 33" extension cable that has a push to talk switch. UNUSED, \$12.95



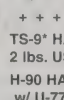
HANDSETS



H-250 HANDSET w/ push-to-talk button, coil cord & U-229 plug. USED CHECKED \$18.00

H-33/PT HANDSET for GRC-3-8, PRC-10; w/U77 plug. \$17.50

H-350 HANDSET, same as H-250 except additional contact on connector. USED, \$24.00



TS-9' HANDSET, p/o EE-8 field phone; 2 lbs. USED, \$14.95

H-90 HANDSET, like TS-9 but w/ U-77 plug; \$12.00

H-23 (or =) Handset for BC-1000, \$25.

Beige Standard Handset newer style mfg by ITT, Unused, \$3.25

JEN-20 HANDSET w/ AMPLIFIED receiver for hearing impaired; black or beige. NEW, \$15.

WESTERN ELECTRIC #D14842

(or =) **HANDSET** with 1903 patent date; black painted brass handset with PTT-switch appears to be same as TS-7 handset used with pre-World War-2 EE-5 field phone. 3-wire cloth cord. 4 lb used, \$45.00



ACCESSORIES

For Headset Cords/Cushions see pg 13



GSA-6 CHEST GROUP SA-142 PPT-switch & CX-1077 cable w/ U-77

plug connect H-63 headset to GRC radios. USED, \$6.00

#14-PJ ADAPTER, 1/4" phone plug going to 2 pin jacks. Used, \$2.50

MC-385D Headset Adapter, High to low impedance with PL-55 plug to a JK-34 jack. Used with HS-33 or HS-38

headsets. Works between jack box and CD-307 cord. 1 lb. Unused, \$3.95

PHONE PLUGS, used cutoffs:

PL-354 red, \$4.00
PL-55 on 30" cord, \$1.00
DOUBLE PLUGS, unused: #D178542 (WE289) for headsets, etc. \$3.00
#2PPC / switchboards, \$3.00

JK-33 PHONE JACK to fit PL-68 plug. USED, 2 for \$1.00
JK-34 PHONE JACK to fit PL-55 plug USED, 2 for \$1.00

MIC ELEMENTS, checked: F-1 for TS-9, \$4.00
M-51 for H-63, M-29, \$4.00
H-33 or H-189, \$5.00
TA-117 for H60 (TA312), \$5.00
WE #D173011 sound-power mic for TS-10; brass, \$10.00

RECEIVE ELEMENTS, checked: H-33 or H-189 receive, \$5 ea
TS-9 receive element, CALL
TA-235 for H-60 (TA312), \$5.00

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

Headset Cords & Cushions

CD-307 EXTENSION CORD for headsets with PL-54 plugs like CW49507, H-16, H-113, HS-23/-33; 65" cord has JK-26 jack & PL-55 plug; #H, unused, \$3.50



CD-604 CORD with impedance matching transformer 500 ohm to 4000 ohm; 6" cord & PL-54 plug. P/O HS-30 headset. USED, \$1.50

CD-318 CORD W/ PUSH-TO-TALK SWITCH w/ lock; has 7" cable w/ PL-68 plug and JK-26 jack. Use with T-30 throat or T-45 lip mics; less strap. 2 lbs sh. Used, \$14.00



CX-2481 CORD with PL-55 one end, PL-68 on other; 12 feet long 2 lbs sh. UNUSED, \$9.95

MIC COIL CORD, 1-shielded, 2-wire not; stretches 30"-42". #SH-CC3042, NEW, \$2.50

"EXTRA-STRETCH" PHONE COIL CORD #T245-MOD, 4 ft to 25 ft extension w/ modular jacks; tan. NEW, \$3.00

SWITCHBOARD CORDS

#PL68-68, black cloth covered cord with early style phenolic PL-68 plugs on each end; 68"L. \$7.50
#55-24, red cloth covered cord with double 1/4" mono plugs on each end; 24"L. \$10.00
#G2-SWB-72, grey cloth-covered cord with double 310 plug on each end; 72"L. 2 lbs. \$6.50
#R2-SWB-72, as above except red, \$6.50
#500286-102, red with black cloth covered cord with double 310 plugs on each end; 25"L. \$10.
#500286-104, same as above except 50"L. \$12.00
#WE-338A, dirty light brown dual cloth covered cord w/ double 310 plugs on each end; 17"L. \$8.
#310-56, grey cloth covered cord with 310 plug on each end; 56"L. \$8.00

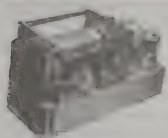
"Y" CORDS

#3E7385.60, 48" molded cord with 15" legs; 2-pin leads each end. unused \$3.00
#CD-620F, molded 16"L legs & 6" cord with 2 lugs each end; for HS-30 headset. \$2.00

Headset Cushions

MX-41 2.8" Rubber cushions f/ HS-23/33 headsets, \$3 pr
M-301 4" Chamois cushions for HS-23 or HS-33, \$6 pr
M-300 Inserts f/ HS-30, Unused, \$2.95 pr

Power Amp for 618S-1



POWER AMPLIFIER from 618S-1 2-25 MHz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3 3/4x1 3/4: dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz motor. Also ten Centralab 850 HV capac-

itors 10 pf, 50 pf, 7/100 pf & 1000 pf. silver contacts on ceramic switch and 3/ 6159 tubes. 11x5x6, 10lbs #3496/618S-1, less tubes, \$33. With tubes \$42.50 MATING CONNECTORS, 2 required, \$3 ea SCHEMATIC for #3496/618S, \$3

RF CHASSIS

RF CHASSIS f/ Bendix RA-18C 108-136 Mhz receiver; 7-gang capacitor tunes ant-coil RF grid. RF plate, mixer grid, 1st osc-quadrupler, 1st osc-amp, & cathode follower input. Tubes 2/5654, 5670, 5725: requires 6.3-12.6-108-250 VDC. 3.5 x 3.5 x 10.5, 5 lbs. With schematic. #RF100-RA-18, \$10.00



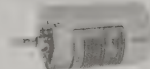
5 MHz STANDARD

FREQUENCY STANDARD MODULE from R-1051* and RT-618* radios; usable as replacement or adapt to other need where standard is required. Crystal oven with 5 MHz crystal provides 5 MHz sinewave output (approx 1.8V) plus possible non-sine outputs dual 500 KHz, 1 & 10 MHz. Designed

stability: 1 part in 10 / day. Requires 18-24 VDC input. 4.4x3x4.5, 2 lbs. #6625-078-4718, used crystal only is checked, other outputs may need repair, \$20.00 w/ schematic

455 KHZ BFO

PERMEABILITY-TUNED 455 KHZ BFO COIL from R-392 receiver. Originally used with 5-55 pf variable capacitor but fixed cap may be substituted. Oscillation without parallel capacitor: 452-480 KHz. Good basis for any receiver with 450-465 KHz IF; w/ schematic. 3.3"x1.5" dia, 1 lb. #BFO-T602/R392, USED, \$14.95



CRYSTAL OSCILLATOR



TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 °C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) crystal (not supplied). Has external

oscillator input plus tuning meter & oven output. Requires 12-18 VDC regulated for oscillator; 22-39 VDC 1 amp for heater. W/BNC and SMA RF connections; DEC-9P plug for power. Part of GRT-21/22 xmitters. 6.5x2x3.3, 3 lb #OSC-8004290G1, used with schematic \$9.95

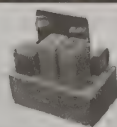
Collins HF Oscillator

O-215/ARC-38A STABILIZED MASTER OSCILLATOR ASSEMBLY from RT-311/ARC-38, an aircraft HF transceiver. Utilizes series-fed electron-coupled oscillator, a more stable variation of Hartley-type. Step-adjusted inductor covers

14000 positions to tune osc- frequency 1.75 - 3.5 MHz in 125 Hz steps. Has Collins SMO #70E-22, discriminator #147A-1, 27.5 VDC gear drive and tubes 3/6AK5, 6BA6, 2/6BE6. 6x6.5x10, 15 lbs sh. USED, w/ schematic, \$35.00



ART-13 Crystal Calibrator



ART-13 CRYSTAL CALIBRATOR, provides 50 KHz fundamental using 200 KHz crystal. Also 1000 Hz tone for MCW. Tubes 2/12SL7, 12SA7; 6x5x3, 4 lbs #XCAL-ART-13, used, \$20.00

DISCRIMINATOR

PHASE & LOAD DISCRIMINATOR determines if load is <, >, or = to 52 ohms; also if R, C, or L. 3rd output relative to antenna current; with schematic. 2x3 x3, 2 lbs. #T201/180L, \$9.00



RF-550 MODULES



Harris RF-550 HF receiver & RF-131 exciter modules ; 4.1x2.1 x5.9, 2 lbs sh. USED, not tested: #A2A8/RF550 High Band Phase Lock Loop, \$32.00
#A2A14/RF550 Low Band Phase Lock Loop, \$32.95

SCHEMATIC packets, \$7.50 ea w/module purchase.

ARC-5 PARTS

SCR-274/ARC-5 COMMAND SET replacement parts:

#7277 6-9.1 MC 1st IF, \$5.00
#7279 " " 3rd IF, \$5.00
#5856 " " oscillator \$5.00
#6234 " " RF sect. \$9.00
#7249 5.3-7 MC BC-458/T-21 xmitter PA coil, used \$6
#6032 6-9.1 MC BC-459/T-22 xmitter oscillator coil \$4

FUSE ASSEMBLY, from ARC-5 receiver racks.

Comes with both of the fuses. 1.8x 1.3x1.2, #FA-5, Used, \$5.00



URG-2 MODULES



GRR-18/GRT-17 RECEIVER-EXCITER MODULES & RACKS from "complete" group pictured. Black box modules fit into rack slot.

"USED-NOT TESTED".

TS-2923/GRR-18 (599H3) RECEIVER TEST, \$39.50

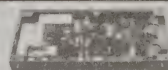
CV-2649/GRT-17 (888B-1) AMPLIFIER CONVERTER, provides output signals for exciter from 250 KHz IF input; less cover, 8 lbs sh. \$99.50

CV-2653/GRR-18 (889A-2) AUDIO FREQUENCY DETECTOR for receiver, 7 lbs sh, \$125.00
CH-645/GRR-18 RECEIVER RACK only; no module clips. 10.4x18.8x22.6, 18 lbs sh. \$65.00

RF EXCITER

RF EXCITER MODULE

from 1980's HF transceiver; mixes 500 KHz USB signal with synthesized frequency to produce and amplify modulated RF. Synthesizer (not available) supplied 74.5/75.5 (LSB/USB) and 77-105 Mhz depending on desired output frequency; RF output is low level. Requires +5, +12, -12, +28 VDC; with pinout. 1x7.8 x3.3, 2 lbs. #RF-EXC-1512, unused, no info, \$25.



RF Amp. / Preselector



Harris RF301/GRC-165 2-15 Mhz RF Amplifier/Preselector section contains V1 6DC6, V2 12BY7 which provide tuned grid/tuned plate amplification for the RF receive amplifier and the transmit driver. Band switch does not have detents, 14.1 mhz bands. 1/ERC 6025 and 1/ERC 5020. Power required 200 VDC, -36 Vdc and 6.3 vac. An excellent basis for QRP set or experimentation. 6.3x6.5x6.7, 5 lbs sh. With schematic and info. #RFA-165, \$19.95

INFRARED DEVICE

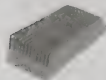
INFRARED RECEIVER/DEMODULATOR as used in televisions and VCRs for remote control; has infrared detector and an IC for signal processing. Requires 5 VDC; 0.7x0.6x0.6, 1 lb sh. #IFRD-TV, NEW, \$1.95 ea. 7 for \$10.00



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850-895 MHz Modules

Modules from digital air to ground phone system. Receive frequency was approx 850 MHz and transmit 895 MHz. Removed from equipment-Excellent:



MILCOM 850-900 MHz POWER AMP, no specific data, but estimated 10 W power out using MRF-897 transistor; has heat-sink top. SMA input-output connection; 3x8.5x2, 4 lbs. #MIL-850-10PA, \$39.50

CELWAVE (or =) 6-SECTION DUPLEXER for 850 MHz receive and 895 MHz transmit frequencies; SMA connections. 4x4.5 x2.4, 2 lbs sh. #CEL-85095-DP, \$19.95



DITCOM MICROWAVE DF-2575 CIR-CULATOR for 850-895 Mhz; 500 watts CW max, 3 KW peak. Isolation 20 DB min; insertion loss 0.3 db max. VSWR 1.25:1. Two SMA, one N conn; 1.4x1.7x1.3, 1 lb. \$19.95

FERROCOM 9K15-S CIRCULATOR, 840-900 MHz; T-shape SMA-N-SMA conn. No info; 1.9x1.9x1. \$14.95

MILCOM 2-WAY COMBINER for 800 MHz, 2- SMA female & 1- male connections; 1.8x2.8x2, 2 lbs. #240-089, \$19.95



800-900 MHz Modules



MODULES & COMPONENTS from airline phone system operating in 800-900 MHz range:

#IFPC COMMON module has two receiver input and two transmitter output sections. Has parts two each Motorola filter 0850E05140 and 0895E05141, M/A- COM 7N526-6016 circulator in one section. Also 47.5 MHz local oscillator, 5 MHz piezo osc and IC's N80C169KB 16 MHz CPU, 27C256-20 32Kx8 EPROM, 3/84256-10L 256Kx4 RAM & related IC's. Requires +28, +12, -12 V; 11x6.5x3.2, 7 lbs. \$20.00

#IFPC-T/R MODULE, stripline receiver RF/IF and low power xmitter boards plus oscillator/AGC board each in separate cavities. Components S80C652-1 MPU, 2/84256A-10 RAM, 27C256JUL E-PROM, two Sony 20102A D/A CONV, etc. Requires +12, -12 +5 VDC; 11x6.5x1.5, 5 lb \$15.00

#AFF-PS MODULE, powered both above modules; has switching supplies Calex #24S12 (24 VDC in to 12 VDC 1.7 A out) and #12S5 (12 VDC in to 5 V 400 MA out); two RO Assoc 220-400 VDC input uVERTERS with one 28 VDC 10 A out and other 12 VDC 10 A out; and Vicor DC-DC Converter 250 VDC 35 W in to 5 VDC 25 W out. Also flat heatsinks, capacitors, etc. 11x6.5x3.3, 7 lb \$10.00

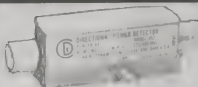
850-950 CAVITY

850 to 950 MHz CAVITY from cellular installation. Frequency varies over the range by means of an adjustable plunger with locking screw. Has a smaller plunger for fine frequency adjust. Two input/output loops each with N connection. Aluminum; 18"H x 6.8" dia, 10 lbs shipping. #CAV-850950, used-clean, \$49.95



225MHz DETECTOR

225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier. Rated 65 watts forward; 15 watts reversed. Forward/reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1x1.3, 1#. Coaxial Dynamics #3023, USED, \$18.00



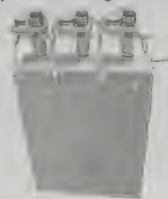
Bird Power Monitor



BIRD 4162D RF POWER MONITOR, rated 220-405 MHz 40 W. Measures incident and reflected power; VSWR 1.1:1 max. Usable over 145-500 MHz. Output 100 uA @ 5K ohm. RF connectors; output C, input BNC. DB-9 for DC outputs. 1.8x4x1, 1 lb sh. NEW, \$19.95

135 MHz Tunable Cavity

118 - 135 Mhz Tunable Cavity. This is a large three section cavity for use in the range 118 to 135 MHz. No specifications available. Those of you who know about cavities could probably modify it for other frequency ranges. This unit has stepper motor and encoder on each section. Bodine Hysync DC Stepping Motor 23X1BEHD Caltech Corp Bit encoder 8 bit Absolute 33X121. No info on circuit to use these motors, but you can manually tune the cavities or design your own control circuits. 8.3x26.5x42.9, 70 lbs sh. #TC-135, Used excellent condition, \$175.



900-1100 MHz Cavity

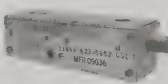


TRANSMITTER TRIPLER / PRESELECTOR CAVITY MODULE from TACAN system in 900-1100 MHz range. Consists of preselector and four silver-plated cavities originally gang-tuned using ball-chain

drive (not available) 10x7.5x2, 7 lbs sh. #4-CAV-93, used, \$49.50

DIRECTIONAL COUPLER

Rockwell Directional Coupler for the AN/GRC-171B 20 watt, 200-400 MHz transceiver. SMA connector for RF input. RF output uses BNC connector. NOS# 5985-00-588-5285, 4.8 x 1.3 x 1.3, 1 lbs sh. \$25.00



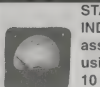
Triplexer



TRIPLEXER from cellular application by Fuji Electrochemical Co. #EF-T02,

Frequencies are as follows - Transmit: 835MHz, Receive: 880MHz, Lo: 784.36MHz. Has female push-on SMA connections for Transmit, Receive, and Lo and a female TNC connection for Antenna. Cast aluminum housing with a removable cover. o/a 4.3x1.5x0.8, 2 lbs sh. Appears unused, \$4.00

SWR Indicator Circuit



STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1.8" square 0-10 scale (FS=2 ma) meter with filters, rectifiers & modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. Circuit is balanced when antenna is tuned to 52 ohms resistive resulting in "0" reading on meter. Bridge: 2.5x 2.3x1, 2 lbs sh. #M701/CU-991, Used, w/info, \$8.95

SWR / Discriminator pull out from AM-3349/GRC-106 Amplifier which covers 2-30 MHz at 200 Watt AM and 400 Watt PEP. Has two R/A mini BNC connections and a 15 pin DB connector with mating connector. 3.2x2.6x2.2, 2 lb. w/ schematic. #SWR-3349, \$10.00



SWR BOARD #PTSR006AOX for HyGain radio; no further info. \$1.00

QRP Circuit Boards

SHORT-WAVE CW EXCITER/ TRANSMITTER by Ryan Communications; tiny 2"x4" high quality circuit boards cover active segments of ham radio low band frequencies @ 1.25 W CCS from 12 VDC power input into 50 ohms resistive. Output increases from 0.75 W-2.5 W as input varied from 10-16 VDC. RF Harmonics > 30 DB. Has 2N3019 power amp transistor and double Pi-net. Provision for HC-6-33 xtal; norm-open contact-closure required for output.

#SW-1: 1.8-2.0 MHz, \$32.00
7-7.5 MHz, \$20.00; 10-10.6MHz, \$20.00

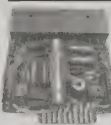
#SW-1A SERIES, parallel dual driver-dual power amp for enhanced performance, \$26.00 each:
BAND 14.0-14.35 MHz; BAND 18.068-18.168MHz;
BAND 21.0-21.45 MHz; BAND 28-29.7 MHz

Noise Activated Switch

NOISE-ACTIVATED SWITCH with sensitivity adjust and mic; 6 VDC input, 2"x2". #54-91. \$1.25 ea.



S-Line Mechanical Filter



Circuit Board with #526-9310-009 mechanical filter model F455Q3. This "Y" style filter will fit S-Line equipment. 100K ohm in/out impedance. 3.5dB bw is 18kc, 70dB bw is 70kc. IF frequency of the filter is 455KHz. The circuit

board also has two 5636 sub-mini tubes and various resistors and capacitors. No further info on circuit board. 3.9x3.5x0.8, 2 lbs sh. #CB-MECH, Used, \$50

Time-Temp Sign PCB

SCR/TRIAC CONTROLLER BOARD with seven 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triacs gates with 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6x6x0.8, 1 lb. #ASI-CMC27 w/info, \$3.00



INDUCTOR PC BOARD has 3 200 uH and 2 1200 uH inductors 3/4"H x 1-3/8" dia; also 3/4000 mf 20 V, 3/3000 mf 25 V axial caps, xistors etc. 3 lbs. #54-014535, \$2.00

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AN/GRA-71

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TERMS: All manuals include maintenance info & schematic unless noted otherwise:

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AN/TRQ-23 (R-901/R-902/R-744) and various loop antennas. We copy the op's manual (-10) and the maintenance manual (-35) with schematics repro	24.00	BC-191 or BC-375	12.00	ME-30 repro	10.00	SG-376 repro	15.00
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AN/USM-116 repro	12.00	BC-640A repro	12.00	PP-4763A repro	10.00	TCS-12 repro	17.00
AN/USM-117 repro	17.00	BC-652/653 (SCR-506) 12.00		PP-6241 repro	10.00	TELETYPEWRITER Index, Navalex 0967-LP-104-0010; Date Nov. 61	20.00
AN/USM-140 repro	20.00	BC-659 (SCR-609/610) 12.00		Radio Marine model ET8003 Transmitter 1930's design repro	\$12.00	TS-147 specify letter repro	17.00
AN/USM-281A repro	25.00	BC-669 repro	12.00	R-104/TRR-8 repro	15.00	TS-352/ME-9 repro	8.50
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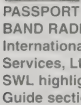
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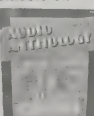
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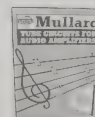
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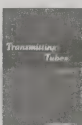


The 1973 edition of G.E.'s tube data book, giving all the characteristics starting with 00A and 01A. Includes foreign to American tube interchangeability chart, industrial/military cross reference, picture tube data and basing diagrams. Also entertainment semiconductor. 473 pages, 3 lbs sh. \$14.95

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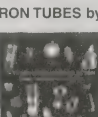


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3C23	\$18.00	acorn,	\$5.95
4D32 Raytheon,	\$28.	1619 or 1626, \$5.50 ea	
10/\$240.	32/\$700.	1625 Nat-Union,	\$4.50
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6AZ8 ECG	\$5.00	5751	\$9.00
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6BQ5/EL84 Sovtek	5755	Raytheon,	
\$4.95 10/\$47.50 25/\$112.50	\$2.95	10/\$25 100/\$195	
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\$9. 10/\$82.50 25/\$187.50	5998A Syl,	\$9.95	
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6DC6 various,	\$6.50	6146W GE,	\$19.95
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12AY7	\$8.00		
12BE6 GE,	\$3.25	NUVISTORS	
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89:	\$4.50 ea	8058	\$24.00
53	\$6.50	8552 ECG,	\$12.00
83 Sylvania,	\$18.00	26 SERIES TUBES	
717A, 884, or 885 \$7.50	Used \$3; 26A6, 26A7, 26E6		
811A Cetron	\$25.00	Unused \$5; 26D6, 26E6	

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- Many tube types available in glass and metal. Please specify if you have a preference.
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The tubes listed below are \$4.50 unused and \$2.50 used.

0A2 0A3 0C3 0D3 0Z4 1A5	7A4 7A5 7A6 7A7 7A8 7B4
1A5 1B4 1C5 1D5 1E7 1J3	7B8 7C4 7C5 7C7 7E7 7J7 7K7
1L4 1N6 1P5 1R4 1R5 1S2	7L7 7Q7 7R7 7S7 7T7 7V7
1S4 1S5 1T5 1U4 1U5 1X2 1V2	7W7 7X6 7X7 7Y4 7Z4 7AD7
1LA4 1LC5 1LC6 1LD5 1LE3	7AG7 7AH7 7AK7 7AU7
3B4 3D6 3Q4 3Q5 3S4 3V4	8AU8 8B10 9KZ8 10EG7 10DE7
5A6 5AN8 5J6 5U8 5V6 5W4	12A6 12A8 12C8 12B4 12D4
6A6 6B8 6C4 6C6 6D6	12H6 12J5 12J7 12K7 12K8
6F7 6F8 6G6 6J4 6J5	12L6 12W6 12Z3 12AC6
6J6 6J7 6K4 6K6 6L7	12AH7 12AX4 12AZ7 12BA6
6N4 6R7 6S8 6T4 6T7	12BA7 12BF6 12CA5 12CA6
6T8 6U6 6U8 6V3 6V7	12SF5 12SF7 12SG7 12SH7
6W4 6X4 6X5 6X8 6Z4	12SJ7 12SL7 12SR7 12SY7
6AB4 6AB7 6AC7 6AF3 6AF4	14A5 14B8 14C5 14C7
6AF9 6AF11 6AG5 6AG7 6AH4	14E6 14N7 14R7 14W7
6AH6 6AK5 6AK6 6AL5 6AN5	17D4 17AX4 17BF11 17GW6
6AQ5 6AQ7 6AS5 6AR6 6AS6	19T8 19AU4 21GY5 21JV6
6AU4 6AU5 6AU6 6AU7 6AV5	25L6 25W4 25Z5 25Z6 25BQ6
6AV6 6AX4 6AY3 6BA11 6BC5	25DN6 32L7 35A5 35B5
6BC8 6BD5 6BD11 6BE6 6BH6	35C5 35L6 35Z3 35Z4 45Z5
6BJ3 6BK5 6BK7 6BN4 6BN6	50C5 50X6 50Y6 70L7
6BN8 6BQ6 6BU8 6BX6 6BZ7	117Z4 117Z3 117Z6 117Z7
6CB5 6CB6 6CD6 6CF6	56S1 56S4 56T0 56T2
6CM7 6CS6 6CS7 6CU5 6CU8	56T8 57Z5 57Z6 57Z7
6CY5 6CY7 6DA4 6DE6 6DG6	57S0 5814 5963 5965
6EA5 6EB8 6EH4 6EM7 6ES5	6005 6186 6189 6888
6GF7 6GH8 6GJ7 6HB7 6JT8	7056 7058 7167 7258
6JZ8 6LE8 6LU8 6MN8	9001 9002 9003 9004 9006
6SA7 6SB7 6SD7 6SF7	
6SH7 6SQ7 6SR7 6SS7	

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 6SL7WGT, 6V6GT BROWN \$3
 24A, or 27, \$3.50
 26, or 42, \$5.50 80, \$6.50
 6080W, \$4.25

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 6AC7 6AG5 6AH6 6AK5 6AL5
 6AS6 6AU6 6AV6 6AU4 6BA6
 6BN6 6BQ6 6CB6 6H6GT/M
 6J4 6J6 6K7 6SH7 6W4GT
 12A6 12AT7 56T8 5963 5965

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VARIAN VA-98M/8901 KLYSTRON, 23.6 - 24.4 Ghz
100 mw CW; Eb=500 V @ 40 ma. 2.8"Lx 1"Hx1.3"D
w/ 6"L wire leads; 2 lbs sh. NEW, \$125.00
Filaments checked, but not guaranteed.

RCA 4012/A1157 TRAVELING WAVE TUBE, 2.0-4.0
GHz, 36 db min., 20 mw
min. 15.5"LX3.5"Hx1.5"W.
4 lbs **UNUSED**, \$40.00



702B mfg by Sylvania. This unusual tube appears to be a special diode for UHF applications. Clear glass with gold plated rings. Great collectors piece! 1" dia x 2.3" ht., Unused, \$15

JAN 705A RECTIFIER, 4-pin base;
5"Hx2.3" dia. used \$4

GL-6044 oversize 6-pin w/ 4 tabs;
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#TS1030U2 SHIELD 12AX7-size. \$.60

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#E104 for sub-mini tubes,	\$5.00
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MINI 7- pin mini, moulded or bakelite, unused,	\$.35
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MINI 7- pin mini, moulded push-in no ridge, used,	\$.25
MINI 7-pin mini with collar for shield NEW,	\$.60
MINI 7-pin CERAMIC with collar t/shield, NEW	\$.80
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OCTAL-USED: ceramic ring or 2-hole mt,	\$ 1.25
Octal Fiber Wafer, unused,	\$.30
SUB-MINI, round, long-lead, unused,	\$.85
ACORN FLAT CERAMIC SOCKET used,	\$ 5.00

4X150 Dual Socket Assembly from the T-195, two sockets on 4.3" x 2.9" chassis with 1.1" H bakelite chimneys; used: 4X150/T195, \$19.95



U-102 OCTAL TEST SOCKET, test points for octal tube; plugs into socket.. #4578, NEW, \$2.00

#410-S ORON TUBE SOCKET for 3-500Z, 4-400A, 4-125A 5-pin PA tubes. Stainless steel 3.6" dia (92 mm) ring has ceramic insulated silver plated contacts. **NEW, \$27.50; 2 for \$47.00**



JOHNSON #209 SOCKET, ceramic for medium 4-pin bayonet base (811, 3B28 etc); 1 lb.used \$7.50
Septar Ceramic Square Socket, Used, \$7.00



Super Jumbo 4 pin Rectifier Socket
by Johnson. Inner diameter of the
flange is 1 7/8". #123-206-50, \$22.00

Similar to above but less the flange, therefore, will accept more tube types such as 8008, 5C22, etc. #SJS-4, \$20



EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

CATHODE RAY TUBES

CRTs are used no burns:

2BP1 15.00	4MP1 20.00	5CP1 10.00
3ADP1 15.00	4QP31 35.00	5FP7 nos 20.
3BP1A 15.00	5ABP1 20.00	5HP1 15.00
3BP1A nos 30	5ADP7 30.00	5JP1 12.00
3DP1 6.00	5AMP2 25.00	7ABP7 15.00
3HP7 4.00		7BP7 9.00

CRT for HP180/USM-281A, \$45. f/TEK 453, \$85.
f/TEK 454A, \$100. f/TEK 531-535, \$45.
f/TEK 541-545, \$45. f/TEK 545A, NEW, \$65.

SOUNDING DEVICE



PIEZO ALERT WARNING
DEVICE, 6-12 VDC produces
105 db piercing Hi-Lo beep.
4.2x4.2 x1.8, 1lb.
#MG-SB-2, NEW \$11.00

FARADAY HORN

FARADAY 48 VDC 100 ma HORN,
made for Bell Telephone; makes
loud, penetrating sound w/
screwdriver volume adjust.
Steel construction; recess
mount. Front size 4x4x1.3 1.3"
panel depth, 3 lbs
#KS-12037L2, NEW, \$5.95



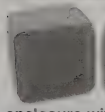
LOUD BUZZER HORN as used in smoke
alarms; 2" dia x1.3". #41-81
Please SPECIFY VOLTAGE:
6 VDC \$1.25 ea; 12 VDC \$1.35 ea

ALARM BELL

ADAPTABEL INDUSTRIAL ALARM
BELL, 5.8" dia bell operates from
6 VDC 250 MA for non-fire use.
Heavy metal cast construction
with mount hardware; 3 lbs.
Edwards #435-6C1, new, \$9.95



SPEAKERS

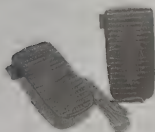


SPEAKER PAIR in
PLASTIC ENCL-
SURES, each 4" dia 16
ohm 1 W speaker in
attractive 6.8x6.8 x5.3
enclosure with 6' cord and RCA plug. White &
black plastic per pic; 4 lbs sh. #ER-PL-SPK-PR,
NEW, \$3.95/pair; 4 pair / \$12.00

3 X 5 SPEAKER, 2 watts with 1.8"
dia magnet; 1 lb sh. 16 ohm 1 W.
NEW, \$1.35 ea; 10 for \$12.00 100
for \$95.00



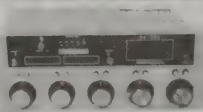
INTERCOM / MONITOR



ONE-TO-ONE INTERCOM/
MONITOR, low-cost wire-
type set allows someone
to listen to kids, a sick
person or pet from another
room. Master control
has ON-OFF, push-to-talk
switch, and audio elec-
tronics; a remote control

has speaker only; 20 ft wire. Requires 9 VDC trans-
istor battery (not supplied); control size 4.9x2.5 x1,
3 lb #CH-MON, unused, \$6.00

DC-5RA RAMKO MIXER



RAMKO DC-5RA 5-
INPUT AMP/MIXER,
each input has Level
Control and can be
connected to "A" or
"B" buss or not con-
nected to either. Each

buss has LED VU-meter and Master gain control.
Input level -60 DBM 510 ohms/0 DB 500K ohms; fac-
tory set @ 0 DB, but can be changed per manual.
Response 20 Hz-20 KHz. Speaker monitors input
channel; w/ manual copy. Requires 115 V 60 Hz;
7x19x15, 17 lbs. shipping. Used, not tested, \$79.50

5 CHANNEL MIXERS



MICRO-TRAK PM5-MX AUDIO CONSOLE, monaural
unit for radio & TV audio control has five inputs with
Level Control, four of which have two balanced
inputs with Cue, Off and Program. Fifth input has
five selectable balanced inputs with Cue, Off and
Program. Also Master, Monitor, Cue, Headphone
and Talkback Level controls. Uses IC/FET switches
for input selection and voltage controlled attenua-
tors for setting levels. Also has internal 10 watt
amplifier, analog VU-meter, headphone amplifier and
built-in speaker. May be production "rejects" as they
have minor problems; with manual/schematic.
3.5x19x16, 18 lbs sh.

#PM5-MX-LS, lever switch Cue-Off-Prog, \$150.00
#PM5-MX-PB, push button Cue-Off-Prog, \$149.50

Reel to Reel Recorder

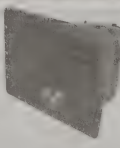


RD-365 Tape Recorder, trans-
istorized monaural unit
uses standard 7" audio
tape and plays/records at
3.75 or 7.5 IPS. Has VU
meter, footage counter, Fast
Forward/Rewind. Built-in
speaker plus jacks for mic,
bridge input and external
speaker; 100-7500Hz response. Has plastic case.
Requires 115VAC 60Hz. Comes with mic, take up
reel and 1 tape. Tested for "basic playback/record
operation; adjustments may be required."
14.5x13.3x7.3. 28 lbs sh.

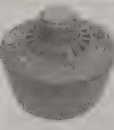
Unused, \$75.00; Manual for above, \$10.00

Electro-Voice Horn

Electro-Voice HP64 Trans Planar
Horn with multidriver adapter.
Accepts upto 4 drivers with stan-
dard 1 3/8-18 threads. Small for-
mat 60 degree x 40 degree horn,
800Hz minimum, 2 inch throat,
weather resistant, gray fiber-
glass. May be mounted free-
standing or in enclosure with 9.5"x7.5" rectangular
opening. Included also is stainless 90 degree
mount adapter for surface mounting. 12.7x11x8.8,
11 lbs sh. Used, \$99.00



Speaker Driver



University Sound Model #ID-75-8
Heavy Duty Driver rated for 75
watts at 8 ohms. Sound pressure
level is 133 DB. Maximum usable
response is 150-7000Hz. Rugged
outcase assures the utmost
durability. 4 1/4" diameter x 3 3/4"
long. Thread is 1 3/8" - 18; 7 lbs
sh. Unused, \$27.95

CHOKES

Dimensions listed below are case only, so make
allowance for terminals. Weights listed below are
considered SHIPPING weights. styles as indicat-
ed; may be "used" or "unused": Limited stock.



STYLES (A) (B) (C)
1 mHY/5.0mHY 11A/1A swinging 6.8v - 120cps
.07 ohm 2x2.3x3, (A), 4 lb, #103-1MH-11A, \$9.50

3 HY 100ma 200 ohm, 500VW; 1.7x2.2x2.3, (A),
2lb, #95-3H-100MA, \$14.00

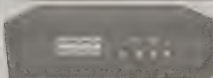
5 HY 130 maDC 115 ohm, 350VDC working
2.3x2.3x3.5, (C) coated, 3 lb, #91-5H-130MA, \$15

15 Hy 5 ma 400 ohms, 1x1.9x3, (A),
1 lb #L2/AM20, \$4.00

C-161 LOADING COIL used with switchboards as
1:1 ring-thru transformer; CT line-side winding.
Popular in old phone patch projects; 3x5x2.6,
4 lbs sh. used \$12.

C-114 LOADING COIL, adds 88 mH inductance to
field phone wire increasing effective range
125+%. Water tight case; 4 lbs sh. used \$10.00

Video Selectors



Amco Mfg. #VS-104,
has a type F connec-
tor for each of the 4
video inputs. Also
has 2 RCA jacks with

each input for right and left audio. Output also
has one F connector along with 2 RCA jacks. 4
push button switches on the front for each input.
Black, 5.5 x 8.3 x 2.5, 4 lb, used, \$19.95

#VS-14, has a type F connector for each of the 4
video inputs along with one RCA jack for "Game"
on the first input. One F connector for output. 4
push button switches on the front face. Woodgrain,
5.5 x 8.3 x 2.5, 4 lbs, used, \$12.95

RCA male to female 18" cable, #RCA-18, \$1.95

VCR Selector

Amco Mfg. #VTR-10, has a
type F connector for each of
the 10 VCR inputs. One F
connector for the TV output.
10 push button switches with
an LED beside each switch on
the front face. Internally
shielded. Originally used to
demo products. Black,
8.8x9.8x11.4, 11 lb, used, \$24.95



Transistor Audio Amplifier



TRANSISTOR AUDIO AMPLI-
FIER w/5-transistors, On-Off-
Volume and Tone controls.
Inputs for ceramic or crystal
phono cartridges. Other pos-
sible uses as intercom,

home-brew receiver, child's projects. Use with 8 or
16 ohm 3" or 4" speaker. Requires 6-9 V AC or DC;
with schematic. 1.5x2.3x3.3.
#ER-10-1231, NEW \$2.95 ea; 2 / \$5.00; 6 / \$12.00

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

LOW VOLTAGE TRANSFORMERS

All 115 VAC 60 Hz primary unless otherwise noted; styles as indicated; may be "used" or "unused": Dimensions listed below are case only, so make allowance for terminals. Weights listed below are considered SHIPPING weights. Limited stock.



STYLES	(A)	(B)	(C)	
SECONDARY SIZE	STYLE	WT	STOCK #	PRICE
2.5V 15 A, 6V 8 A	3.6x4.2x6 (A)	10	#77-2.5V-15A	\$14
2.6VCT 10 A,	3x3.5x6 (A)	7	#58-2.6V-10A	\$11
4.5-6.5V 12 A ,	5x6.1x4.5(A)	21	#T-4565	\$6.50
Two 5 V 3 A	3x3.3x3.4 (C)	7	#P-6333	\$9.95
7.5/6.3 VCT 3 amps,	6.3 VCT 4 A			
5 VCT 12 amp,	7.8x4.3x3.5 (A)	14	#9T35Y150	\$12.
5 VCT 6.5 A				
6.4 V 6.4 amps	3x4.5x3(A)	6	#SMB202959	\$6.95
23 V 300 MA				
6.6V 2.3 A,	2.3x2.7x4.1 (A)	4	#93-6.6V-2.3A	\$4.50
6.6V 10 A,	3.3x4x5.8 (A)	10	#77-6.6V-10A	\$9.95
6.6VCT 1 A				
9.2 V 600 MA	2x3x2(A)	2	#NE-1063-P	\$3.95
10 V 4 amp,	3x4x3.5 (C)	7	#BE-12696	\$4.95
18 V 1.5 A, 19 V 2.5 A				
12.5 V 2 amps	3x3x2.5 (B)	2	#FR-24960	\$2.95
12 V 9 amp,	5.3x4.3x4.8(C)	22	#P-601719	\$8.95
12 V 3.2 A, 12 V 2 A, 44 V 2.5 A.	(12 V windings can be wired to produce 12 V 14 A)			
12.6V 6 A,	3.9x3.3x2.9 (C)	7	#15-12.6V-6A	\$6.95
13 V 20 amp,	4x3.5x3.8 (C)	10	#430-9001	\$19.95
13.5V 15 A,	4.2x4.5x3.8 (C)	12	#57-13.5V-15A	\$14
15 V 3 amps	4.5x3.8x3.8(C)	13	#PV-175-9	\$4.95
13 V 2 A, 6.3 V 7 A	with capacitor			
15 VCT 3 amp,	2.5x3x2.5 (C)	2	#TRA-1577	\$3.95
16.5 VCT 2 amps	2.6x2.5x2 (C)	2	#BE15869	\$3.95
17 V 1.5 A,	2.5x3x2.5(C)	3	#54-995	\$4.00
19 V 1.6 A				
18V 5.4A,	4.5x4.8x4(C)	16	#401-21	\$8.95
26 V 1 A, 6 V 900 ma,				
25 V 500 ma, 35-10-0-10-35 V 5 A				
18 V 1.5 A,	3x4x3.5 (C)	7	#BE12696	\$4.95
19 V 2.5 A, 10 V 4 A				
18 V 4 amp	2.5x3x2.8 (B)	4	#SK-710202	\$4.95
20 V no load	3x3x2.5 (B)	2	#FR-24960	\$2.95
or 12.5 V 2 amps on 4" dia plate.				
20VCT 8 A,	3X3.7X4.5 (C)	10	#54-20V-8A	\$14.95
12.5V 2.5 A,				
22 VCT 3 amp,	3.8x3x4(C)	8	#3S92890015	\$5.00
80 VCT 1 1/2 amp				
24 VCT 2 A	2.5x4x2 (C)	3	Triad #F-192X	\$5.50
25VCT 8 A 4 x 3.6 x 5.3 (A)	13	#200P25GT	\$14.95	

28 V 6 AMP	5.5x2.8x3.5(C)	6	#LR80498	\$8.50
on chassis w/ On-Off & line cord				
2x30 V 250 MA	1.8x2x1.5(C)	1	URC#60605	\$2.50
30 VCT 200 MA	2.3x1.3x2(C)	1	URC#374501-1	\$2.95
45 VCT 100 MA,	2.5v 30ma			
30 VCT 560 ma	2.5x2.3x2 (C)	2	#401-6	\$3.00
40 VCT 450 ma				
31 V 5 amps,	3.5x4x3 (C)	8	#TI-723	\$7.95
39 VCT 2 amps				
32 V 5 amps	3.2x2.8x2.3(C)	4	#X5157308	\$5.95
32 VCT 1.5 A;	2.5x2.6x2.1(B)	3	#142259	\$3.95
35 VCT 1 amp	2.5x2.8x3(B)	3	#1341155-2	\$2.50
Rusty condition				
36 VCT 2 amps	2.9x3.5x2.3 (B)	3	#SR-448	\$4.95
38.9 V 4 amp	2.6x3.8x3.5(C)	5	#021/0220050	\$7.50
tapped 26-9-3-0.9 V,	150 VCT 200 ma			
40 VCT 1 amp,	3.3x3.8x3.3(C)	7	#P-1220	\$7.00
31 VCT 2 A,	11 V 1.2 A			
40 VCT 2.1 A,	3.5x5.5x3(A)	8	#9807	\$6.95
24 V 1 A,	117 V 50 ma:	sealed		
40 VCT 1 amp	3.3x2x2 (B)	2	#URC56000	\$2.95
42 VCT 2.5 A	6.3x5.8x4.8 (A)	14	#235-2593	\$8.95
2 VCT 12 amps				
44 VCT 11 A,	4.6x6.1x4(A)	18	#M5087	\$25.00
44 VCT 3.5 A				
50 VCT 2 amps,	3.8x3.5x3(B)	5	#701-129	\$4.95
6 V 2A				
2 x 52 VCT .3A	2.5x3.4x2.8(C)	2	#9100-0168	\$4.95
52 VCT 2.6 amps,	3.2x3.8x3 (B)	6	#EIA606-451	\$7
tapped 33 and 18 VCT				
70 VCT 5 A,	4.5x4.8x4 (C)	16	#401-21	\$8.95
tapped 20 VCT;	18 V 5.4 A,	26 V 1 A,	6 V 500 ma	
2 x 80VCT 100 ma,	2.2X2X3.5(A)	4	#81-80V-100MA	\$3.
80VCT 180 ma,	3x3.2x4.9 (A)	6	#46-80V-180MA	\$3.50
80 VCT 1.5 amps,	3.8x3x4 (C)	8	#3S92890015	\$5
22 VCT 3 A				
115 V 75 MA,	4.8x7x6(A)	14	#BP-18585	\$9.95
6.3V 6A,	6.3V 3A,	6.3V 1.8 A,	2.5V 5A	

High Voltage Transformers

SECONDARY SIZE	STYLE	WT	STOCK #	PRICE
289V 200MA,	4.5x3.9x5.9 (A)	16	#8-289V-200MA	\$15
207V 125ma,	2x6.3V 4.5A,	2x6.3V 5A		
375 VCT 50 MA	2.5x3x2.6 (B)	3	#8316527	\$6.50
6.3 V 2 amp	(230 VAC only primary)			
665VCT 100ma,	3.4x4x4.6(C)	coated 9	#111-665V-100MAS24	
2 x 115V 600ma,	6.5VCT 9A,	6.4VCT 3A		
800VCT 75MA,	5.5x5.3x8.3 (A)	26	#15-800V-75MA	\$20
275VCT 220ma,	120V 2A,	35V 6A,	6V 2.5A,	5V 6A
1000VCT 80MA,	4x4.5x5.5 (A)	12	#61-1000V-80MA	\$20
1232 VCT 50 MA,	4.3x5.3x3(A)	10	#146-44-1	\$9.95
tap 437 V 15 ma,	5 V 2 A,	6.3 V 2.5 A,	6.3 V 3.2 A	
2000 VAC 125 UA,	3.5x4.3x3.3(C)	6	#T101/CP95	\$6
400 VCT 25 ma	6.3 V 1.2 amps,	26 V 400 MA		

Audio Transformers

Primary	Secondary
50 ohms 30ma	500 ohms 400 to 1900 Hz Mic
Transformer 1.5x1.3x1.5(A)	1 lb #T204/PP115 \$3.
100 ohms	100K ohms; input transformer,
2.1x2.2x3.2 (A),	2 lb #T3/AM20 \$6.00
250/4000 ohm	150, 600 ohmCT 400-3000 Hz
1.8x1.8x2.5(A)	2 lb #C280/RM39 \$4.00
500 ohm CT	500 ohms CT 600-12000Hz
2.3x2x2.5(A),	2 lb #T203/PP115 \$3.00
62.5K ohms	1340 ohms, 100-10000 Hz 5 ma.
1.9x3x1.8(A),	1 lb. #502-5442 \$5.00

+ + + + +

TRIAD TRANSFORMERS

#TY-61X TRANSISTOR DRIVER 100 ohms 100 ma : 100 ohm CT, 50-10KHz 500 mw. 2.7x1.5x1.5. \$4.00

#TY-65Z MODULATION Pri: 32 ohms CT 575 MA DC Sec: 4K-6K ohms 10 W. 2.7x2.4x2, 2 lbs. USED \$5.

Misc Transformers

TRANSFORMER-POWER SUPPLY Pri: 2 x115 VAC 48-62 Hz. Sec: 570 VCT 200 MA, 25 VCT 1.2 amps, 6 V 8 A. On chassis w/sockets for two 26Z5 tubes; 20 lbs. #PS-R390A, used, \$25.00

28 V 6 AMP TRANSFORMER on chassis with On-Off switch & line cord for 115 VAC input. 5.5 x 2.8 x 3.5, 6 lbs. #LR80498, Used, \$8.50



ISOLATION TRANSFORMER #A762101 , pri 115/230 V 60 Hz; sec 105 VAC 1 amp 2.2x2.6x2, 3lbs. Used, \$6.95 ea: 2 for \$12.00

Secondary: 114V 1 amp OR 126V 1.1 amp with 2230V insulation. Primary: 116V / 120V / 124V. 9.4x6.5x5.3, 29 lbs sh. Sealed. #64-114-1A, Unused, \$32.00

FLYBACK TRANSFORMER for tube-type TV's. 5 V input yields about 1300 V 80 KHz out. Styles vary; 1 lb. #FLYBK-98, \$5.00

MODULATION TRANSFORMER Pri: 5500 ohm 235 ma or 2000 ohm 300 ma. Sec: 200 ohm 20ma 90 watts max. 3.1x3.5x2.9, 4 lbs. #677-0923, used, \$8

1510 V "Y" TRANSFORMER, primary 200 V delta 3 phase 400 Hz; sec: 1510 V "Y" 500 ma; originally produced 2000 VDC for 1 KW xmitter. Usable with some automobile alternators to run high voltage equipment. 4x4.5x2.5, 5 lb #T1/T730, used, \$20.00

3-PHASE POWER TRANSFORMER from Harris RF765 5 KW transmitter; two outputs of 1916 V 2.3 amps and one 1518 V 490 MA from 208/220/230/240 V 3-phase input. Made by Basler; 17x 26.5 x12.5, 300 lbs shipping. Harris #10178-5200, used, \$450.00

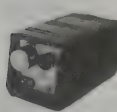
MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

POWER SUPPLIES



5 VDC 6 AMP AC DC #ECV5N6-1
MODULAR SUPPLY, +0.05 line and
load regulation from
100/117/220/23/240 VAC 47-440 Hz
input; 4.9x5.6x2.5, 5 lbs. NEW, \$15.

5 VDC 3 AMP EXELON DC REG-
ULATED SUPPLY, and 12 VDC
0.1 amp output from 115/230
VAC 47-63 Hz input. 5x5.3x2.8, 4
lbs. #PS-1545, NEW, \$10



12 VDC 1.5 AMP DC POWER
SUPPLY designed for small tool
rated under inductive load like a
motor. Output > 20 VDC under
lesser loads; can be varied
somewhat depending on load.

With 6 ft AC cord; requires 115 VAC 60 Hz;
2.5x2.5x5, 3#, #DR-12VPS, NEW \$10.95

COLECO DISK DRIVE
POWER SUPPLY for ADAM
system; transformer type
with outputs +5 V 3 amp,
+12 V 2.9 A, -5 V 200 ma, and
+18 V inductive 1 A. 115 V 60
Hz input. With cords and On-Off switch. 11x4x8,
10 lbs sh. #COL72559, unused, \$10



PP-3929A/FLR-9 DC
POWER SUPPLY with
outputs -12 VDC 8
amps and +12 VDC 2

amps. Has 3.5" dia meters 0-15 VDC and 0-12
AMP DC, switch for Output Select +10/-10 VDC
and Voltage Adjust trimmer, Terminal strip on
rear; mating connectors not available. Solid-
state; requires 115 VAC 48-63 Hz. 4.8x19x18,
46 lbs sh. USED-REPAIRABLE, \$35.00

Linear Regulated Power Supply
by Lambda #LM-CC20-V,
adjustable 20VDC +/- 5% at 5
amps. Perforated housing.
Requires 205-265VAC 55-65 Hz.
10x4.9x4.8, 17 lbs, Used, \$45

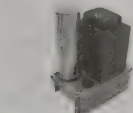


Linear Regulated Power Supply
covering 5 to 28VDC at 5 to 8
amps. Requires 115VAC 60Hz
input. With the addition of a
multiturn potentiometer this
power supply can be adjusted
from 5 to 28 vdc with excellent
regulation. Unit is heatsinked.
Uses seven 2N3055 transistors.

Made by Transistor Devices model #SPS-2336,
12x6.7x6.3, 25 lbs sh. Unused, \$99.50

Rackmount Power
Supply by

Westinghouse cover-
ing 12 to 65VDC at 3 to
9.5 amps from an input
of 115/230VAC 60Hz. The power supply does have a
current adjust but does NOT have a voltage adjust.
The voltage is directly relative to what the current is
set at. Has 2.9"H x 3.5"W panel meters for Amps
and Volts. Running time indicator. 15.5x19x7, 49 lbs
sh. #WE-65, Unused, \$89.50



Open Frame Unregulated
Power Supply. Output of
125VDC at 600ma from
115VAC 60Hz. 2.8x4.7x6.1,
7 lbs sh. #PS-125,
Used, \$19.95

Switching Power Supplies



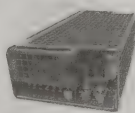
2x5x13, 6 lb #SWPS-528, \$6.95

SWITCHING POWER SUPPLY
with 3" axial fan. Outputs +5 V
10 amp, +12 V regulated 2.5 A,
+12.5 V 5 A unregulated from
115 VAC 50/60 Hz input. P/O
Wang equip. 2.6x5.1 x12.5, 7
lbs. #12690, \$14.



POWER SYSTEM switching
supply, outputs +5 V 7 amps,
+12 V 3 amps, -12 250 ma, -5
300 ma from 115/230 VAC 50-
60 Hz input. 7.8x 4.4x1.5, 3#.
NEW: #PS1558, \$15.00

5 VDC 10 Amp (at 50 degree C)
Switching Power Supply. Output
voltage is adjustable + or - 5%.
Input required 105-132VAC 47-440Hz
or 130-160VDC 95 watts. 7.9 x 1.7 x
4.5, 4 lbs sh. Unused,
Lambda #LJS-13A-5-0V, \$18.00



Switching Power Supply,
Outputs: 5VDC 30A, 15VDC 3.2A,
15VDC 1.6A, 24VDC 3.0A.
Housing is perforated. Requires
115VAC 60 Hz. Various mfg.
10.9x7x4.2, 7 lbs
#TMA24-1335, Unused, \$16.95; 2 for \$27.00

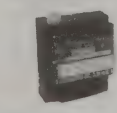
Switching Power Supply,
Outputs: 5VDC 21A, -5.2VDC
7.5A, 12VDC 4.7A, -12VDC
1.5A. Each output has a
potentiometer adjusting the
voltage +/- 1 volt. Perforated
housing with a heatsink on top. Requires 115VAC
60 Hz. Various mfg. 10.9 x 7 x 4.2, 15 lbs #7860,
Unused, \$14.95; 2 for \$23.00



48 VDC 34 AMP PP-8097
SWITCHING POWER
SUPPLY designed to
power FET-type power
amplifier used with RT-
1512/GRC-215 exciter.
Also +/-15 VDC 1 A output, 6" dia 16/32 VDC fan;
On-Off switch, two connections to P.A. and one
Input; mating plugs not available. No further info.
Requires 110/220 VAC 50-60 Hz; 0x19.5x17.5,
100 lb USED-excellent, \$150.

H V SUPPLIES

HIGH VOLTAGE POWER SUP-
PLY, input 120 VAC 50-60 Hz.
Rated outputs: -5000 V (6+ KV
tested) 1.8 ma, +120 V 15 ma,
+24 V 0-1.25 amps, +16 V 200-
450 ma. 4x9.5x4, 17 lbs ship-
ping. #GE9T63Y2280G02,
used, \$12.95



STATIC NEUTRALIZER SUPPLY,
5 KV output from 120 VAC 50-60
Hz 20 VA in. 4.3x 3.1x2.6,
4 lbs shipping.
#S-H-95078, NEW, \$12.00

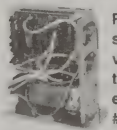
Power Supply Modules



5 VDC 3 Amps regulated open
frame power supply with over
voltage protection from 115/230
VAC primary. Mfg by
International Power #IHB5-30VP-
506. 4.9 x 4 x 1.9, 4 lbs sh.
Unused, \$15.95

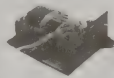
Same as above except 15 VDC 1.5 Amp,
#IHB15-1.5, \$16.95

+5/-5 V 3 AMP REGULATOR BOARD,
up to 24 VDC unregulated.
Capacitors two 15000 mf 15 V, 33000
mf 30 V. Two each KBPC rectifiers,
2N6576, 2N4441 SCR. 7.8x6x4; 3 lbs
sh. #MEND-REG-5V, \$5.00



REGULATOR MODULES from Sun
supplies, each with current limit and
voltage adjust. Includes bridge rec-
tifier, filter capacitor, two 2N3055 or
equal and 723 regulator; 2 lbs
#SUN-REG-124, 12 V 4 amp, \$10.00
#SUN-REG58, 5 V 8 A w/OVP, \$8.00

POWER SUPPLY MODULE with 3-
conductor cord, fuse, 110/115 V
input switch and 50% Voltage
switch. Outputs: 18 V 350 ma & 30
VCT 600 ma; 50% switch, 9 V 350
ma & 15 VCT 600 ma. 6x4x2.3, 4 lbs.
#PSM-4404-87AD, used, \$3.75



BATTERY CHARGER



NI-CAD CHARGER
PP-6241 SOLID-STATE BAT-
TERY CHARGER for silver-
zinc or nickel-cadmium
types. Three independent
charging units with out-puts
8-16-32 VDC or 0-36 VDC in
0.1 V steps; 1 or 2.25 amp

charge. With cables CX11971, CX11972, and
CX11973. Requires 115 VAC 45-440 Hz input. 11.5x
13.8 x11, 46 lbs. With book: Used, \$39.50;
Unused, \$79.50

DC CONVERTER

ASTEC DC to DC CONVERTER
designed for PC mount; +5 VDC
input produces 12 VDC 85 ma out-
put. 1.2x1.5 x1, 1 lb. #AA7210, NEW,
\$2.95 ea; 2/\$5.00



Wall Transformers



AURORA TOY WALL TRANS-
FORMER, changes 120 VAC to 9.5
VDC 350 ma output. 6" cord with
slide lugs; 2 lbs sh.
#AUR-95V34VA, 2 / \$4.00

CERVCO AC ADAPTER, 11.5 VAC 175 ma out-put;
6" cord w/o lugs. #CER-11.5V, 2 / \$3.00

AC adapter / wall warts GRAB BAG from cell
phones:
12VDC 200 ma to 1000 ma, #AC-12, 5 for \$11.00
9VDC 130ma to 300ma, #AC-9, 6 for \$12.00

13 VDC 1 Amp Wall transformer
from 120VAC input. 6 ft cord w/
"Barrel Type" DC power connector
O.D. 5.0mm; I.D. 2.5 mm.
2.6x2.2x3.4, 2 lb, #TAACA0201, \$2.50



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Dynamotor Supplies



DY-107/AR DYNAMOTOR SUPPLY for ARC-44 radio. Output 138 VDC 140 ma, 310 VDC 30 ma, & 27 V 400 Hz 3 phase 10 VA; input 27 VDC 3 amps. 5x 9x3, 10 lbs sh. USED, \$37.50

DY-79/PRD1 DYNAMOTOR SUPPLY for R-395 DF receiver; 24 VDC input. With 3 tubes and 2 ballasts; 10x14x16.6, 22 lbs sh.

GOV'T-RECONDITIONED, \$75.00

Manual repro for AN/PRD-1 / R-395 / DY-79, \$20.00

D-10A Used \$7 D-401 used \$12 DM-36 re-new \$15

DM53 used w/ base\$6 DM53 12V unused w/ base\$8

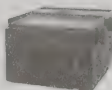
DY10/ARC1 \$14

DE-86/ARN-30 \$7

PE-98 12V used \$30 PE-133 used \$10

3H1514-22 DYNAMOTOR for RBM Rx. Unused, \$20

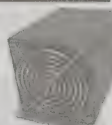
#2C432/B50 HINGE SET /DM-21in BC-312/342, \$7



200 WATT INVERTER

PRICE
REDUCED

12 VDC to 120 VAC 60 HZ INVERTER, rated 200 watts continuous; 600 W surge. Output is squarewave with zero-crossing. Has studs for input & 3-cond outlet. 3x7.5x4.8, 7 lbs. #RC-12200, NEW, \$65.90 \$49.50



2.5 KW AC INVERTER

DC to AC INVERTERS, 12 VDC nominal input produces 117 VAC 60 Hz modified sine wave using switching circuitry. Power inverter blocks feature very low standby current. Current draw proportional to load. With 4.6" sq cooling fan; User must supply On-Off control & input-output fusing. 4.9x8.3x5, 5 lbs shipping. Ryan mfg, NEW: #DCAC-1250W, 1250 watts; \$179.50 #DCAC-1750W, 1750 watts; \$259.50

INVERTER KIT

400 HZ INVERTER KIT removed from PP-2352; good foundation for 28 VDC to 115 VAC 400 Hz 500 watt 1 phase inverter. Includes oscillator feedback, driver, output, & regulator transformers, two saturable reactors & schematic info. Add other components to suit your power needs; 10 lb. #KIT400HZ-500W, \$49.50

750 WATT INVERTER

ROTARY INVERTER, output 115 VAC 400 Hz 1 phase 750 VA from 28 VDC 60 amp input; Leland or =, 12x9.5 x7, 42 lbs. GOV'T-RECOND, \$57.00

#R-INV1500-1, 115 VAC 400 Hz 1 phase 1500 VA output from 28-VDC 92 amps input. Older style Leland mfg; 9.3x17x7.3, 54 lbs sh. UNUSED, \$49.50

#PU-16/AP INVERTER, like above except 750 VA out from 28 VDC 60 A in; 9.3x16.5x7, 40 lb \$32.95

COMPASS INVERTER

DC to AC INVERTER for aircraft radio compass indicators. Input 24 VDC 1 amp output 26 VAC 400 Hz 1 phase 6 VA; 3.3x3.8x3, 3 lbs shipping. Pioneer #12117-6, UNUSED \$16.95

Variable Transformers

- - OTHER RATINGS AVAILABLE - -
Tell us your needs!

All variable transformers listed below are used good condition unless otherwise specified.



GENERAL ELECTRIC VARIABLE TRANSFORMER, input 120 VAC 60 Hz. Isolated output 0-60 VAC. Maximum current load: 5 amps. Two units wired in series will produce 120 VAC output. Coil not enclosed; dial plate & knob not included. 4.4" dia X 4"H; 6 lbs GE #9T92A1515, NEW, \$19.95; 2 for \$35

POWERSTAT variable transformer, no dials & knobs. #DMLW-136BT-3, 0-30V at 25 amps 60 Hz or 15-0-15V at 35 amps 60 Hz out from 120/240 V input double wound; Actually has two isolated 15V secondaries. Great basis for a 12 or 24 volt power supply. Enclosed, motorized 3 section (3 phase). 12" dia X 30"H, 90 lbs. \$195



#5M116BT, 10 Amps 0-140 V, input 120 V, motorized. Enclosed with knob and dial plate. 7.3x7.3x11.5, 25 lbs \$62.00

#GA5065OL 380 HZ VARIABLE TRANSFORMER, input 120 VAC 380/1000Hz; output 0-120 VAC 380/1000 Hz 13 amps. 7x6.2x3.3, 9 lbs. \$18.00



Staco #033-6565, 20 Amps 0-180V, input 120V, motorized. 8.8x8x10.5, 36 lbs, \$120.00

General Radio #W20, 20 Amps, output 0-140V, input 120V. Not enclosed. Comes with the knob but less the dial plate. 7.5x7.5x6.5, 24 lbs sh., \$145.00



Variable transformers listed below are 240VAC 60Hz inputs; not enclosed. Used unless otherwise stated.



VARIAC W20H, 0-240 V 8 Amps from 120/240 V, 7.5 x 7.5 x 6.5, 23 lbs sh. Unused, \$95.00

GE #9T92A30G51, 8.5 Amps 0-240/280V, input 120/240V, motorized. 7.6x6.9x10.2, 23 lbs sh., \$89.50



GE #9T92A30, 8.5 Amps 0-240/280V, input 120/240V. 7.1x6.2x6.3, 17 lbs sh., \$92.00

Pointer knob, \$1.00
Dial Plate, \$1.50

Powerstat #2388-10698, 9 Amps 0-240V, Input 240V, motorized, perforated sides. 9.1x9.5x10, 30 lbs sh., \$89.50



Staco #033-7015, 10 Amps 0-240V, input 240V, motorized, perforated sides. 8.9 x 9.5 x 10.3, 30 lbs sh., \$99.50

Regulators / Conditioners



Sola CVS 2000 Watt Constant Voltage Transformer provides a very well regulated sinusoidal waveform that is isolated from variations and disturbances in the input voltage. Also provides isolation and step-up/step-down to allow for various input/output voltages. Input 95-130/175-235/190-260/380-520 60Hz. Output 120/240VAC 60Hz 2000VA. 17.8x11.4x9.6, 115 lbs sh. Unused, \$250 ea., 2 / \$450

WANG POWER CONDITIONERS,

electronic line voltage regulators with full magnetic isolation protects computer & similar equipment from line voltage surge or "sag" damage. Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4. #SC-100A-PC, 1000 VA output with one large L5-20R receptacle; 45 lbs sh. NEW, \$195.



WANG LINE REGULATOR, designed for 120 VAC 500 W constant output for computers from 95-130 VAC 60 Hz inputs. Has two 3-conductor outlets, On-Off switch, and line cord. 7.8x8.5x16, 40 lbs sh. #725-2740, unused, \$125.00

SOLA #63-13-150 C-V HARMONIC NEUTRALIZED REGULATOR, 120 V 60 Hz 500 W output from 95-130 VAC 5 amp input. Two 3-cond outlets & On-Off on front. 6.9x7.8x13.3, 34 lbs. #63-13-150, used \$95

GENERAL RADIO 1582A VOLTAGE REGULATOR, automatically compensates for AC Line voltage fluctuations; output 115 VAC +/- 10%; 7.4x19x16, 90 lbs sh. #GR1582A-AL, 85 amps, 90-110% correction, \$275.

Un-Interruptible Supply

UPS SUPPLY produces 120 VAC 60 Hz 500 watt output from 48 VDC input. Rechargeable 8 cell x 6 VDC lead-acid battery pack supplies power when normal power is interrupted. Inverter output is modified squarewave with zero crossing. No further data; batteries functional, but no warranty as to cell life. W/casters; 14.5x12.5x10.3, 70 lbs sh. #UPS-48-500, Physically good condition. Used less batteries not tested, \$49.50

Frequency Converters

ELGAR 500 W FREQUENCY

CONVERTER uses four 125 watt power amps; voltage, freq & phase digitally programmable. Input 208 VAC 60 Hz; output 300-1000 Hz selectable 0.15/30/130 V (phase A), 0-40/ 160 V (phases A, B, C) & tandem AQ+BQ=240 VA @ 115 V. Special Elgar 504 requires 16-bit binary & TTL programming to operate; Info not available. 7x 19 x24, 150 lbs. #580-283-047, UNUSED, \$495 \$250.

PP-7482/G STATIC FREQUENCY CONVERTER, changes 115 V 60 Hz input to 400 Hz output 1 phase 1000 watts. Internal pots adjust output voltage and freq. Rockwell #622-3861-001; 19x5.5x19.5, 55 lbs sh. USED, AS-IS "non-working", \$125.00

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

Handcrank Generator



HANDCRANK MAGNETO GENERATOR from telephone equipment; features long crank with shaft extending 2.5" from generator and mount plate that allows left or right side or bottom mount. Will work up to 90 volts.

Replace "dead" generator in antique phone or as remote bell ringer or "worm shocker"; 4 lbs sh. #MAG-GEN-1085, used, \$15.95

GN-38 HANDCRANK GENERATOR, similar to above with flat magnets but has shorter fold-up GC-9 crank. Will work up to 90 volts. Used in EE-8 and other older military phone equip. 4"Lx 2.5" dia; 4 lbs sh. USED, \$19.



RECTIFIERS

FULL WAVE BRIDGES:

#AL-10-5, 25 AMP 50PIV used, \$1.50



DIODES: 1 AMP 50 PIV 20/\$1.

1 Amp 400 PIV 15/\$1. 1 Amp 1000 PIV 10/\$1.00

MR752 6 AMP 200 V \$1.

1N21 RF diode, \$1.50 1N23 RF diode, \$2.50

1N3890 12A 100V, 4/\$3 1N1184, 35A 100V, used \$1

#D-R610-0230, 200 PIV 300 A; 4" tail. Used, \$8.95

#SM-C-745210, 37V Zener w/ 3/4" stud, \$2.00



MOTOROLA MR1265FL RECTIFIER rated 300 PIV 650 amp. With hardware. 3.3x 2.3x3.3, 3#. NEW, \$17.50

HIGH VOLTAGE DIODE 3 PHASE "Y" BRIDGE from 2000 VDC power supply; six submodules each with ten 1N1095 diodes & 5 capacitors series-parallel. 3.3x2.3x3.7, 2 lbs. #1540/ARC-58, \$6.00



SEMICONDUCTORS

2N3700, 3/\$1.00

2N3716, \$1.95

2N3739, \$1.95

2N4126, 5/\$1.00

2N5428, \$1.00

2N6292, 2/\$1.00

2N6675, \$3.95

REGULATORS

LM-117K, 1.2-37V 1.5A out; 0.03% load reg., \$3.50

LM-123K, 30W 3 amp 5V positive regulator, \$1.95

LM-137K, negative adjustable regulator, \$1.95

MOV's - #S14K130 130V \$1.25, #S14K175 175V \$1.50

IC SOCKETS

LOW PROFILE

20 PIN, 12/\$1.00

20 PIN, 10/\$1.00

22 PIN, 6/\$1.00

24 PIN, 6/\$1.00

STANDARD

24 PIN, 2/\$1.00

28 PIN, 2/\$1.20

40 PIN, \$1.00

WIRE WRAP

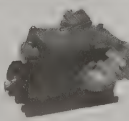
14 PIN, 6/\$2.00

16 PIN, 6/\$2.00

18 PIN, 5/\$2.00

DC Suppressor

MX-7777B SUPPRESSOR protects vehicle radios VRC-12, VRC-53/64 & GRC-106 from damage by voltage transients. Input 28 VDC; output < 36 VDC. Has 50 amp circuit breakers for Overload & Short; diode overheat protection & manual (BATTLE) override. 5.3x7.3x6.8. 7 lbs shipping. USED, \$17.50
PLUGS (2) for MX7777; #29935-2P, used, \$4 ea
PLUGS (1) for MX7777; 4 pin female, used, \$4.50



Diode Heatsink Assembly



#DHS6-1815, with six MR-1815-SL 300 PIV 100 amp diodes; heatsink 2.6x9.4x4.8, 4 lbs sh. \$29.95

SILICON CONTROL RECTIFIER assembly single phase half-wave; GE #C1411CX5 or equivalent. Rating approx 500 V 35 amps. 7x6.3x5, 4 lbs shipping. #KS-19576L1, USED, \$6.95



HEATSINKS



#HS-10169 HEATSINK, 6"Lx3.5"Wx1"H; drilled three 7/16" dia holes for diodes, 2 lbs sh. \$2.50

#HS451-F, 5"Lx4.5"Wx1.1"H with flat back for easy mount; two 7/16" dia holes. UNUSED, \$2.50

#DHS4525 DUAL HEATSINK STACK, each 4.5x2.5x1 with TO-3 transistor; 3 lbs. Used, \$2.00

#2T34513, 3x4.5x1.3 for two TO-36, \$1.25 ea

#WE-H1D HEATSINK w/diode approx 100 piv 25amp; 5x3x1.3, 1 lb. USED, \$2.50

#3D528-8 HEATSINK, 5x3x1.6; drilled for 3 large stud rectifiers (1" dia recesses), \$2.00

#THS-88, 2.5x3x1 finned area and 2.1x1.5" flange for TO-3, \$8.5



DC FANS



COMAIR ROTRON FAN, 12 VDC at .35 amp, 4.2 watt. 4.7" square x 1" deep. 7 blades. #FT12B3, UNUSED, \$8.95

Mini BOXER 12 VDC FAN, 0.13 amp; 3.6" sq X 1". #3610NL, NEW, \$10.00

PANAFLO MINIATURE 12 VDC FAN 2.3" sq. #FBP-068-12L, NEW, \$7.95



PAPST #3214F 18 VDC 2 w / 30 VDC 3 W FAN 9-blades; 3.5" square X 1" deep. NEW, \$9.



CENTAUR 24 VDC AXIAL FAN, 11 watts but operates well at 12 VDC. 4.7" square metal frame with 5-blade plastic fan; 1.5" thick, 2 lbs sh. #CND24K4-601, UNUSED, \$8.95

PAPST 24 VDC FAN, 5 watts. 4.7" square x 1.2" deep plastic frame with 5 blades. #4314, Unused, \$6.95

Hupp Vehicle Fan

12 VDC HUPP FAN with oscillating grill designed for use in cars, trucks, buses, RV's, etc where "extra" air movement is desired. Plugs into vehicle cigarette lighter and mounts on dashboard or other flat surface. White plastic enclosure has black grill and pivots on mount to adjust angle. Includes 4 ft cord and brackets. 5x9x3.4, 4 lbs sh. #HUPP-200-14, NEW, \$12.00; 3 for \$30.00



AC FANS

#TA300 3.1" sq X 1.6"D 7-blade mini-fan in metal housing; 115 VAC 50/60 Hz, 2 lb Used, \$8.95



5-BLADE COOLING FAN removed from military power supply; 4.3" dia rotation. 115 VAC 3300 RPM; with capacitor. 2.8"D. #FAN-2054, Used, \$3.50

5-BLADE COOLING FAN, 4.6" dia rotation; no enclosure. Mounting bracket hole centers 5.9" apart. 115 VAC 60 Hz. 2 lbs shipping. Airtrol #11-2100, NEW, \$4.95



AXIAL FANS, 4.7" sq X 1.5" thick; 115 V 60 Hz. Removed from used equipment:



5-BLADE in metal frame; 18 W. Various mfg. \$8.95

5-BLADE as above except .26 amp & unused, \$13

6" DIA AXIAL FAN 115 V 60 Hz 200 CFM; 5-blade in 6x6x1.5 metal frame; 3 lbs. USED, \$7.95

5-BLADE FAN, 6.8" dia mounted in 9.5x 11.3 aluminum frame with 8x8 removable filter. Motor 105/ 125 VAC 50/60 Hz 1/40 HP 3350 RPM; requires 4 mf 330 VAC capacitor (not supplied). 5.3"D behind panel, 10 lbs. #B201/MD141, USED, \$9.95



ROTRON TARZAN FAN, 6.8" square X 4" D plastic frame fan moves 340 CFM of air from 115 V 50-60 Hz 85 watt input; 5 lbs shipping. #TN3A2, Used-clean, \$19.95

6 FAN PANEL

17.3"W X 10.5" panel frame has six high output Torin TA450S (or ~) 4.6" square 5-blade metal-framed fans. Each fan rated 65 CFM and requires 115 VAC 50-60 Hz 0.11 amps; 12 lbs #6F-PNL, used-excellent, \$39.50

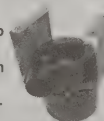


BLOWERS



Approximately 50 CFM Blower by Ripley Company #4599, Inc. Rated for 120VAC 60Hz 600ma. Outlet is 1 7/8" x 1 5/8". Overall blower size 4.4x4.5x4.9, 5 lbs sh. Unused, \$15.00

115VAC 60Hz 210ma Blower by Fasco Industries. CFM is unknown but we believe it is below 50. Has a common 1 1/4" diameter outlet for hose. Comes with a 4 hole mounting bracket. Overall dimensions excluding bracket 4.3x3.2x4.2, 5 lbs sh. #50745, Used, \$8.50



FAN-TYPE BLOWER, 115 V 60 Hz 20 watts; 4" plastic fan blades. Open frame low noise motor in metal case-mount-type frame. Approximately 100 CFM. 13x5x2, 5 lbs shipping. Howard #1075-3102, used, \$4.50



CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

AC MOTORS



BODINE AC GEARHEAD MOTOR 200 RPM 1/7 HP 35 in/lb torque, counter-clockwise rotation; 115 VAC 60 Hz input. Shaft 1.3"Lx5/8" dia w/ 3/16" square key. O/a 8.5"Lx5.6" dia; 14 lbs sh. #ECC1-35E200, used, \$28.95

240 RPM 115 V 60 Hz GEAR MOTOR for intermittent use; starts @ 32 V approx 200 RPM. Increased volts increases torque.

Gearhead extends 2.8" beyond motor; 1.1"Lx1/4" dia shaft. Motor 2.8x2.8x2.4 + 5/8"x3/16" dia shaft for fan on rear, 3 lbs sh. #MOL-2460, unused, \$5.95



GENERAL ELECTRIC REVERSIBLE FAN MOTOR, ball-bearing 115 VAC 60 Hz 1 amp 225 RPM motor. Use with fan blades unless cooled by other means. Has mount flanges and 5 m/c capacitor; 4.5"Lx5.5" dia + 1.5"Lx5/8" dia hollow shaft, 11 lb #5KCP39EGH210, new, \$12.00; 2 / \$20.

PRINTER MOTOR ASSEMBLY, 24 VAC 60 Hz geared to about 4 RPM; can be wired for clockwise or CCW rotation. 2.8x2.5" dia motor on 3.8" sq metal plate; 2#. #MIZ-M0375R, used, \$3.95; 3 for \$10.



PROJECT MOTOR, 120 VAC 60 Hz 3.5 watts 25ma 4.8 RPM motor. Ideal for animation displays or animation projects. 5/16" long x 1/4" dia. shaft. 1.2 x 2.5 x 2.4, 1 lbs sh., #S430.1 New, \$3.50

GM-4 MOTOR ASSEMBLY, geared motor in frame with shaft between 3.5" dia sprockets, 3.5" apart. Motor rated 24 V 400 Hz but can operate from 24 V 60 Hz @ 20 RPM when used with 4 m/c capacitor. Higher capacitance increases speed & torque. Stainless steel frame is removable; 7.3x5.3x2.8, 10 lb #GM4-AM-MO, used, \$9.95



Ametek Shop Vac Motor. This is the very high speed motor used in some shop vacuums. Unit as pictured, motor only with small cooling blades. Shaft approx .5 inch long, 5/16 diameter. 5.3x4.6x4.6, 5 lbs sh. #17749-00, Unused, \$12.95.

115 V AC-DC MOTOR, starts at 25 VDC, runs CW approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5"Lx0.4" dia spiraled shaft; 3 lbs sh. #AC-DC-H02, \$3.00

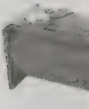
208VAC 50/60Hz 3 Phase 3400RPM 440ma Blower Motor by Rotron. Has 3/8" diameter x 1 3/4" long shafts on each end. O/A 8x4x3.5, 9 lbs sh. #18935, Used, \$20.00

DC MOTORS



AUTOROL MODEL 200 TIMING MOTOR, 5.4 VDC 19.9 RPM; draws about 100 MA with good torque. Shaft 3/8"Lx1/8" dia with flat; o/a 2.5"x1.8" dia. 1 lb. #200-266A, NEW, \$4.75

DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x 1/16" dia; o/a 2.9 x 1.1. #AST-GK26 S8



DUNRITE 12 VDC PERMANENT MAGNET 1/4 HP MOTOR, 5300 RPM cont-duty; 12 inch-lbs of torque. shaft 7/8"L x 5/8" dia both ends w/ pinned gears. 4.9x9x4.5, 13 lbs sh. #6294355, NEW, \$35.00

DC MOTORS



PITTMAN 12 TO 24VDC, 34 TO 75 RPM small motor. Draws around 220ma with load. Shaft is 3/16" dia x 11/16"L. o/a 3.7x1.3, 2 lbs sh. #GM8712D223, Unused, \$15.00

PITTMAN 12 TO 30VDC, 36 TO 90 RPM motor. Draws around 220ma with load. Shaft is 1/4" dia x 11/16"L. o/a 4.3x2, 2 lbs sh. #GM9413D109, Unused, \$18.00



MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.033 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.6" dia collar; geared shaft 0.6x0.4" dia. 3 lbs. SPERRY #2960031, used, \$8.95



GLOBE 27 VDC MINI-PM MOTOR, p/o Collins 618T P-A; spined shaft 1/4"L x 1/8" dia; o/a 1.7"Lx0.9" dia. #41A205, used, \$7.50



GLOBE 27 VDC 1/100 HP MOTORS, 2.5"IX1.3" DIA #C-25A686, 11000 RPM, p/o ARC-45, used, \$7.95



160 RPM DRIVE UNIT w/ clutch has Globe C-25A512 27 VDC 15000 RPM motor and clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia x 1/2" lg shaft. O/A 3 1/4x4 1/4x 3 1/2, 3 lbs. #160DR/618 used \$8.95



JOHN OSTER TYPE C2BP1 SERIES MOTOR, 27 VDC 1/100 HP 7000 RPM. 3"Lx2" dia + 1"L x 1/4" dia shaft; 2 lbs sh. UNUSED, \$3.95



27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no load speed, 1/4 duty cycle; estimated 75 RPM 100 oz/in torque when under load. Shaft 1/2"L x 5/16" dia with ear. O/a 4x1.3x1.3, 1 lb. GLOBE #5A1231, used, \$14.95



NORTHFIELD ELECTRIC or HAMILTON BEACH, 28.5VDC, 2800 RPM motor. 3.1 amp with 1/40 HP. 1/4" dia shaft with removable gear x 1/2" long. o/a 4" x 2.3", 3 lbs sh., #1-1501, Used, \$9.95 As above but 1/33HP, 3000RPM, 2.5A, #AWC-1000 \$10 As above but 1/15HP, 5800RPM, 4A, #AWL-1000 \$12



15 DEGREE STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed & performance w/ driver circuit info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs sh. #RBM-2-62, 2 ohm field, \$12.50 #RBM-4-62, 4 ohm \$15.00 #RBM-6-62, 5.8 ohm \$17.00



15 degree 4-PHASE VR STEP SERVO, 5 ohms 1.5 A; 28 VDC input pulse 3/4x 1/4" dia shaft; o/a 3x3 1/4x3, 2 lbs sh. Made in Canada; removed from equipment. #20M34C1, \$10.00



HONEYWELL 90VDC, 1800 RPM motor. 9 amps at 1 HP. 5/8" dia shaft on each end. One side is 2 3/4" long with the other 3/4"



MAGNETEK VARIABLE SPEED 3/4 HP DC MOTOR. 90 VDC 10 Amps 3450 RPM. Rated for CCW rotation comm end. 11.3 x 4.9 dia. 22 lb sh. #22254200, Unused, \$150

Selsyn & Synchros

1HCT-MKII CONTROL TRANSFORMER 90/55 V 60 Hz; 3.6"Lx2" dia. 2 lbs. sh. USED, \$20
23CT6 TRANSFORMER 90/1V / degree 60 Hz, \$12.
23TR4 RECEIVER, 115 VAC 400Hz, used \$10.00



2J1H1 SELSYN DIFFERENTIAL GENERATOR operates @ 57.5/57.5 V 400 Hz or @ 26 V 60 Hz. 4.3"Lx2.3" dia, 1 lb. USED-less connector caps, \$7

TACHOMETER GENERATOR, motor 265 V 400 Hz 2 phase: generator 18 V 400 Hz 0.3V/1000 RPM. No load speed 10000 RPM. 2 1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, \$7.95



PHASE SHIFTER, unsymmetrical resolver; rotor 1 phase 5 V 30 Hz. stator 2 phase 5 V 30 Hz. 1.4" dia x 2"L. #PS-17-E-1, used, \$10.00

AY-1 AUTOSYN as used in I-81/I-82 indicators; \$7.50

UNITED STATES NAVY SYNCHROS, Description and Operation, a copy of Publication #OP 1303 printed April 1958; 100 + page primer about selsyn/synchro theory and types. \$12.50



WIND DIRECTION INDICATOR using 26 V 400 Hz selsyns. Design your wind vane and indicator for monitoring wind direction from indoors.

Two selsyns required for project; 2 lbs sh. #WIND-SEL, used, \$9.95 each

Compass Indicators



3" DIA 0-360 deg-ree RADIO COMPASS INDICATOR, adaptable for wind direction & antenna position used; 5 degree increments, 2#. #I-81, used, \$13.



BENDIX IN-4D LEFT-RIGHT INDICATOR, 3" dia WW-2 vintage instrument shows wing-tip position relative to ground; requires 24 VDC. 2 lbs. \$15.00



SPERRY MARINE INDICATOR MARK XX MOD.2, part of ship-board gyrocompass repeater. Has 8" dia 360 degree scale in 1" increments under glass; uses two Size-5 115 VAC 60 Hz selsyn transmitters. One drives inner directional indicator; second outer degree scale. With 7 ft cable & special connector; 10" dia X 8.5"D; 45 lbs. UNUSED, \$185.00

R-C Networks



R-C Network - 0.47mfd 600VAC, 220 ohm 7 watt, 3 phase. Made by R-K Electronics. 1.5x4.7x3, #RCY6A-30, \$12.00

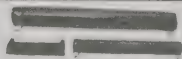
R-C Network - 2mfd 600VAC, 100 ohm 3 watt. Made by Electrocube #RG1676-7, 1.3x2.9x1.3, \$9.95



R-C Network - 0.5mfd 600VAC, 220 ohm 1/2 watt. Made by Electrocube #RG1676-35, 1.3x2.9x1.3, \$9.75

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

RESISTORS



5/10 W, 4 / \$1.00; 20/25 W -3 / \$1.00
5 WATT: ohms 10, 100, 350,
2K, 5K, 7.5K, 15K

10 WATT: 0.33, 2, 10, 84, 1K,
2K, 3.5K

20 WATT: 630, 2K

25 WATT: 0.33, 1K, 10K

0.5 OHM	30 WATT,	3 / \$2.00
1.67 OHM	35 WATT, flat,	3 / \$2.00
2.5 OHM	50 WATT,	\$1.00
10 OHM	31 W, Dale 5%,	2 / \$1.00
15 OHM	95 W, Dale 5%,	\$1.00
22 OHM	53 W, Dale 5%,	3 / \$2.50
25 OHM	50 WATT,	3 / \$2.00
1300 OHM	53 W flat-used	3 / \$2.00
1600 OHM	43 WATT,	3 / \$2.00
2000 OHM	43 WATT,	3 / \$2.00
3000 OHM	68 WATT,	\$1.00
4000 OHM	50 WATT,	3 / \$2.50
40M OHM	2.5"L x .6" dia	\$5
80M OHM	6.5"L x .6" dia.	\$7

OHM	WATT	L x Dia	PRICE
750	100	6.5"x1.3"	\$1.25
25	225	10.5"x1.6"	\$3.50

FERRULE CLIP-ON MOUNT:

2.5M	2.5	5.4"x1.4"	\$2.50
800	90	7.5"L x1"	\$1.50
11	140	11.5"x1.2"	\$2.00
82	203	11.5"x1.2"	\$2.50

Precision Resistors

DALE (or =)
POWER RESISTORS
metal-type:

OHMS	WATT	PRICE
1.96	30 1%	\$2.00
39	15 1%	\$1.00
43	250 3%	\$4.50
50	20 3%	\$1.25
1370	50 1%	\$2.50
1400	120 1%	\$3.50
2500	25 1%	\$1.25
3000	25 1%	\$1.25

most +/-1%; 3 / \$1.00

1.5 ohm	3.0 w +/-5%
5 ohm	0.33 watt
90 ohm	0.50 watt
600 ohm	0.25 watt
4K ohm	0.50 watt
10K ohm	0.50 watt
58K ohm	0.50 watt
1.04M ohm	0.33 watt

0.33	3	1%	2 / \$1.00
3000	2	1%	2 / \$1.00
902K	2	1%	3 / \$2.25
1 MEG	15	5%	\$3.00
10 MEG	20	3%	\$5.00

Slide Resistors

with variable slide adjust:

2 OHM	25 WATT,	\$1.00
4 OHM	25 W + 4 fixed	3 / \$2.25
20 OHM	25 WATT,	\$1.00
50 OHM	50 WATT,	\$1.35
50 OHM	160 WATT,	\$2.50
100 OHM	160 WATT,	\$2.50
250 OHM	200 WATT,	\$3.00
500 OHM	160 WATT,	\$2.50

WARD LEONARD ENCLOSED 40
OHM 300 W var-resistor;
600 V max. Fits 0.5" dia shaft.
3H x 6.5 #2130-40, \$14.00

DALE 70 WATT 5%
6- RESISTOR BANK,
two ea 4 & 7 ohm.
one ea 6 & 8 ohm;
6"L x 3" H.
#R6X70W, \$4.50

PRECISION RESISTORS

KIT, 25 asst. Carbon or wire-
wound 1% \$1.50/ kit

RHEOSTATS

First set of numbers
after RHEO-prefix is
wattage; your choice of
ohms is second set.
SCD= screwdriver adjust
type. Style varies;
USED or UNUSED:

#RHEO-25W (ohms), \$1.50 ea
6-scd, 7, 35-scd, 60-scd, 75,
200-scd, 350, 400, 500, 600 scd,
800, 1500, 20K
DUALS \$2.75; 100/500

#RHEO-50W (ohms), \$2.25 ea
5, 8, 16, 18, 30, 35, 200, 225,
300, 375
DUALS, \$4.00 ea; 16, 20, 35

DUAL 50/25 W 800/500, \$4.00

#RHEO-100W- 20 ohm, \$4.00

#RHEO-150W 2 ohm \$3.50
-150W 15 \$5.00

#RHEO-225W- 3 ohm, \$4.00

#RHEO-300W- 50, 3 lbs \$8.00

POTENTIOMETERS

ALPS or = with switch; 5/8" dia + term.
Shaft 1/4" dia:
10K, 50K or 100K, \$1.00 ea

10-TURN PRECISION POTS, 1/4"
dia shafts: #A-R100-L25, 100
ohm 2.8"Hx1.8"dia. \$6.95

#731A-R50K-L5, 3-turn 50K ohm 5%;
2"Hx1.8", NEW. \$6.00

Grimes #A-4627 Four
Section Pot. w/ knob; 1K
ohm at 2 watt per section,
unused \$2.50

Cases & Enclosures

ALUMINUM
ENCLOSURE &
frame from antenna
coupler. Adapt as-
is or re-work;
7.5"Hx10"Wx 10"D
+ removable
4.5"x2.5x3"D front ant-insulator. Cut-
outs for 1.8" meter & two connectors.
8 lbs sh. #ENC180L3, used, \$7

ALUMINUM EN-
CLOSURE with black crin-
kle finish.
Removeable front
face with handle.
Has a multi-pin con-
nector along with 4 small pin jacks on
front face. 8"Dx5.8"Wx4.3"H, 5lbs
#ENC-CU865, used, \$10.00

STEEL ENCLOSURE
with metal feet and hasp
fasteners. 6.5"Hx9.3"W
x5"D; 5 lbs sh. USED.
#ENC-RM-39, \$3 ea; 2/\$5.

Original electronics
removed making
these "ripe" for your
projects! Black alu-
minum with handles; no
chassis.

#IFPC-ENC, 0.1" thick front panel has
2x24 2.3"H ventilating slots; rear has
four 3" dia holes for fans.
7.8"Hx12.8"Wx12.8"D, 11 lb \$19.95

TEST SET CASE o/a 9"Wx
8.4"Hx9"D aluminum box
includes 3.8"H cover with
storage compartment.
Also hasp fasteners (not
hinged), carrying handle &
rubber feet; Cover may have slight
split at corner; 5 lbs #CS-3797,
unused, \$9.95

INSTRUMENT
CABINET for HP-
test set; adapt to
other uses.
7.6"H x

19"Wx9"D + 4"D cover less 1" over-
lap; three 6"Hx5"W compartments;
w/fasteners & strap; 17 lbs sh.
#CS-HP3550, used, \$27.00



Ideal enclosures for your next pro-
ject! All items below are black alu-
minum chassis with dark grey front
panels. The top and bottom of each
of the units are heatsinked with
1/10" fins. The overall dimension of
each unit is 9 5/8" deep x 5" tall. All
enclosures have multiple 1/4" diame-
ter holes on the front plate. They
differ according to width.
Used excellent.

1 15/16" Wide, 3 lbs sh, #ENC-4-2, \$9.50
4 1/8" Wide, 4 lbs sh, #ENC-10-4, \$12.95
5 9/16" Wide, 5 lbs sh, #ENC-8-6, \$14.95

Large Cases

LARGE ALUMINUM
TRANSIT CASE with
rounded corners, hasp
fasteners & carrying
handles;
20.8"Hx28"Wx17"D
including 6"H top. Spot welded com-
partments + 2 nesting trays; 66 lbs.
#CY-3700/PRC-47, used, \$28.00

FIBERBOARD CASE
with reinforced steel
corners; black vinyl
covered. Hinged with
two twist-locking hasp
fasteners. Foam lined
12.1x12.5x11 large compartment plus 3
smaller ones; o/a 18.5x 18.5 x17.5"H, 20
lbs sh. #CS-FIB1818, used, \$17.50

ALUMINUM CASE
with hasp fasteners
not hinged. Easily
removeable springs
inside. Overall dimen-
sions: 8.7"Dx 20.5"W
x18"H, 22 lb Unused, #TA-219 \$24

Rack Cabinets

Standard 19"
Aluminum
Rack Cabinet,
has 12.7" open-
ing for height
and 12" for
depth. Not
enough depth
for R-390A or SP-600 radios unless you
remove the back panel. All panels are
removable. Cabinet is missing the bot-
tom panel but does have a chassis
plate which covers most of the bottom
leaving just a 3.3" gap. Comes with the
front panel which has many holes from
removed phone jacks, meters, etc. Has
two handles. 21 lbs sh. #RC-19, Used
good condition, \$49.95

Steel Rack Equipment
Cabinet w/ rear door. 76
1/2" full panel height.
O/A dimensions 24" wide
x 22" deep x 84" Height.
4" wide x 3 5/8" tall wire
channel protrudes from
the top beyond the 84"
height. Inside two strips
of twelve outlets run ver-
tical along one side.
There are two outlets on
the outside bottom front
and two outlets inside
towards the back on the
bottom. Comes with
trough light. Made by
Dehrig Mfg. 380 lbs sh.
Shipped motor freight. #5115, unused,
\$175. ea; 2 for \$250.00; 4 for \$400.00

Equipment Glides

Military quality for rack mounting; 2"W
x 18"L; chassis
slides have 21"
travel. Load rat-
ing approximately 100 lbs; 6 lbs sh.
#GL-1821, used, \$13.50 per pair
Same as above but 16.5" long, #GL-
1621, \$13 per pr.
Same as above but 12" long, #GL-1221,
\$12 per pr.

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

COILS



#C-447 coil for BC-610 xmitter 4.5" L x 4.5" dia; 3 lbs sh. UNUSED, \$12.00
#C-389A, 4.5-5.7 MC 3.4", \$8.00

VARIOMETER COIL pull out of ART-13 transmitter, 6 turn 3" diameter stator with 2.5" diameter 7 turn rotor (2-11 Hy); #12 tinned wire. Fiberboard end plates; spline drive. o/a 5" H x 4.5" L x 2.5" W. 3 lbs sh. #L112/ART-13, USED, \$16.95



L8 COIL for T-4/FRC 400 W xmitter covering 2-3.5 MC (44 uH) without variometer; 4.5" dia X 6.5" L

plus 9 banana jacks on ceramic strip; 3 lbs sh. #199-6262, UNUSED, \$10.00

MO & PA TANK COILS from 10 to 12.5 KHz TU-10 TX tuners. Ceramic coil 5" Lx2" dia on 7"x3.1" mount bracket; #12 wire, 2 lbs sh. USED: #2684/TU10 MO; 2.4 uH, \$4.25 #2697/TU10 PA; 1.35 uH, \$4.00



RF MASTER OSC COILS: #T53/6032, pull out of T-22/ARC-5 7-9 MHz xmitter; \$4.00

#L101/ART13, ceramic 2" H x 1.6" diameter base. \$4.00

TELEPHONE PICK UP COIL p/o modem coupler; no info. 5/8x1.8" dia. #403-4, \$1.00

FERRITE CORE INDUCTORS PC mount; 7/8x 3/4" dia. #NV243, 123-177 mH, \$1.50

Small Inductor, 1.5 mH, 1 ADC, 5V, 12KHz, .5 ohm DCR, PC mount. #80063, \$1.95; 3 / \$5.00



Ribbon Inductors



Ribbon Inductor with motor drive; two 5.4" L x 3.4" dia coils with 288" of drawn silver ribbon (0.125" Wx0.01")

Th) approx between; approx 28 uH. Ribbon transferred from coil to coil by 28 VDC motor. P/o Collins 180L3 antenna tuner. O/a 9.3x 5.8x5.8, 10 lbs #L401/180L, used, \$19.95

VARIABLE RIBBON INDUCTOR, p/o T-195 2-20 Mhz 100 W xmitter. Two 4.6" L x2.8" dia drums (one slug core) with 3/16" W silvered-ribbon; 30 turn 4" L coil for 160 uH. 26 VDC motor rotates drums transferring ribbon from one drum to the other. O/a 8.3x5.6x6.3; 10 lbs sh. #L1101/T-195, USED, \$22.50



Roller Inductors



ROLLER INDUCTOR ASSEMBLY with 115 VAC 400 Hz motor drive, 3.4" lg x 1.75 dia coil; 28 turns #18 wire

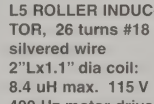
approx 14 uH with center tap. Designed to resonate antenna to a transceiver's frequency. 4.5x2.8x3.8 5 lb used #T301/CU-991, \$7.50

Assembly from AM3349/ GRC-106, includes L1 0.5 to 40 uH variable inductor, L2 37 uH fixed inductor, C27 15-355 pf air capacitor, 26/ 1000 pf feed thru caps, S1 2-deck 5-position ceramic switch and two Globe or = 24 VDC motors. LESS C26 vacuum cap. Cutting of plastic supports required for parts recovery. (See April 98 73 Magazine for project.) 5.5 x 9.5 x 5.5, 10 lb #AL-AM3349-96, used \$29.50



PLATE ROLLER INDUCTOR 26 turns #16 silver plated wire 3.7" L x 2" dia coil; 14.5 uH max. 115 VAC 400 HZ motor and

20K ohm multi-turn pot; will run on 26 V 60 Hz. Can be adapted to direct-drive. O/a 6.8x4x5, 3 lb #L13/ARC-58, used \$27.95



L5 ROLLER INDUCTOR, 26 turns #18 silvered wire 2" dia coil; 8.4 uH max. 115 V 400 HZ motor drive like above; runs on 26V 60 Hz. Adaptable to direct drive. O/a 6x3x4.75, 3 lb #L5/ARC-58, \$12



ROLLER INDUCTOR KITS includes 4.4" L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removable pinned gear. End support plates not supplied; #3 #L22-PRC-47, 22 uH, \$16 #L35-PRC-47, 35 uH w/ part slug core \$15 #L40-PRC-47, 40 uH w/ full slug core \$15

Standard Relays



OPEN FRAME RELAYS with heavy 10 amp silver contacts; mi-calex insulated. 1.8x2.4x1.8, 1 lb sh. USED-CLEAN: #22-4383 DPST NO, coil 115 VAC 60 Hz 400 ohms, \$14.

#22-4384, DPDT, coil 6.3vac1 ohm \$16 #1007-BF, = HRX-1, used, \$8.

MAGNACRAFT SPDT, 12 VDC 10 amp contacts, 100 ohm coil; Open frame; 1.8x1.3x1. #88X-150A, NEW, \$2.50

GE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. For solder or socket connections. 1x1x3/4. NEW, \$1.50 each. 24/\$25.00

DPDT 12 VDC 800 ohm coil, 2 Amp cont; socket or solder. #R10-E1-Y2-S800 new \$3.00

P&B KR-4175-1 DPDT PLATE RELAY; sealed metal can, requires octal socket. 2.5x1.5x1.4, unused, \$2.00

OMRON 3PDT RELAY, 24 V DC 650 ohm coil; 2 A contacts. 11-pin plug-in/solder lugs. 1 x 1.5 x 0.8; #OM-MY3 \$2.00

3PST 120 VAC coil, 10 amp 1/4 HP contacts; clear cover, w/socket. P&B KU-4666 \$3.25

4PDT 12 VDC 185 ohm coil, 2 A 29 VDC cont; w/ socket. 1.1x0.7x1.3; #TF154-CC, \$2.

P&B #AKC7DY DPST n.o. 24 VDC coil; contacts 120/240 V 10/ 5A. Metal cover w/ lugs. 1.5x3x2.3; 1lb. NEW, \$2.95

DUAL DC COIL each 3PST; one 24 V, other 16 V. PC-mt. 2.8x1.5x1.3; #118-2601, \$2.50

115 VAC 60 Hz COIL 25 amp @ 28 VDC/ 115 VAC contacts; solder terminals. 1.8x 3x1.8; #26S20/2054, USED, \$4.00

K3 Relay removed from the T-368. 380 ohms 115VAC 60Hz. High voltage: SP-NC 2500VDC at 500ma. Low voltage: SPDT 500VDC at 10ma. #K3-T368, \$25.00

Open frame relay 24VDC 230 ohm coil. 3PST N.O. 10 amps 120VAC / 5 amps 240VAC. SPST N.O. 1 amp 24VDC #DOUX-2055, \$3.95

4PDT 48VDC 3700 ohm coil; 1x1.5x1.7, MHX4069, \$1.50

DOLLAR DAZE RELAY KIT, five plastic enclosed mixed relays 6, 12, 24 VDC and/or 115 VAC. #DD-56-98, \$2

Sensitive Relays



SENSITIVE RELAY SPDT 6 to 12 VDC 1500 ohms, contact adjust. 2.8x2.2x2.3 1 lb shipping. #RM39/1901 used \$1.50

Sealed SENSITIVE RELAY, 50 ohms 28 ma coil; DPDT contacts. Solder hooks; 1x1x2 1/4. #R400-2B-50 \$2.95

ULTRA-SENSITIVE P&B 6 VDC DPDT RELAY, coil 500 ohm res. < 40 mv nom. power. Contacts rated 2 amp @ 28 VDC/120VAC; solder or socket mount. #R10-E1Y2S500, NEW \$3.50

--- RELAY SOCKETS ---

10-BLADE Relay Socket for track mount of above; pressure screw terminals; 2.8x1.4x2.1, 1 lb Weidmuller #RS, Unused, \$2.50

P&B 4PDT RELAY SOCKET w/screw terminals, Rated 5 A 300 V max. #27E166, NEW \$3.00

Stepper Relays



ROTARY STEPPING SWITCH 115 V 60 Hz ratchet-type; modify to take up to 17 contacts with electric reset. 4.2x3.2x2.5, 2 lbs #SS-109216, \$3.75

ROTARY RELAY, 28 VDC; one wafer, all contacts used. Has shaft w/ 2" arm. 2" x .9" dia. #8002-32 used \$6

LEDEX 28 VDC SOLENOID, 8-position 45 deg stroke. Start torque: 5 lb-in 35 W (15 lb-in holding) cont. duty; 32 lb-in 700 W 1/20 duty. 7S-size 2.8" dia x1.9" W; 1/2x3/8" dia shaft. 4 lbs. #S-8210-025, UNUSED, \$4.95

--- REED RELAYS ---

4-REED RELAY CIRCUIT BOARD, 3 / 500 ohm & one 5K ohm 10-15 VDC relays; also a 26 VDC DPDT sealed relay. #792-312, \$3.00

ELECTROL 5 VDC REED RELAY, low current SPST norm-open contacts; 0.7"x2.5"x0.6". #R4376-2, NEW, \$2.25

--- SOLID STATE RELAYS ---

by Opto 22. 3-32 VDC Control, 5-60 VDC operating, 2.3 x 1.7 x .9, NEW, #DC60S5, 5 amps \$8.50

#D4D12, by Crydom, 0-400VDC line.12 amps. 3.5-32VDC control. New,\$10.50

--- TIME DELAY RELAY ---

P&B 4PDT 24 VDC 5 amp contacts. Adjusts 1.0-45 sec with 15-turn pot, polarity protect. 1.6 x 1.3 x 0.8, #R12-30-24-X4-EI, NEW \$9.95

CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

Vacuum Relays



JENNINGS RB-1H SPDT 26 VDC 270 ohm coil; 12 KV pk AC/DC 15 amps cont. w/ mount flange; 2.3" Hx1.5" dia, 1 lb USED, \$49.50-

#RJ1A-26 SPDT 335 ohm; 3.5 KV pk 18 A AC/DC. Max-open/release: 8 ms. 1.3" H x 0.8" dia, used, \$35.

SPDT VACUUM RELAY ASSEMBLY antenna transfer relay p/o Collins 180L3 antenna tuner; coil 28 VDC 38 ohms. O/a 5x6x2.3, 3#. #K712/180L3, used, \$20



Vacuum Contactors



JENNINGS SPDT CONTACTOR RELAY, rated 1 KW @ 300 MHz, 3 KV test. Actuator 6 VDC. Has 4-pin Cannon power & three SC coax connections. 3.5x3.2 x4, 2 lbs. #RC47R6153M430, NEW, \$75.

JENNINGS SPST VACUUM CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDC. 4x8x3.8, 7 lbs. #RC10A5225A24, unused, \$99



JENNINGS SPDT RF CONTACTOR for high power transmit and process equipment. 26.5 VDC actuator switch rated 300 amps @ 2.5 KV peak; pk test 10 KV 60 Hz. Sealed enclosure w/ mount flange; connector not available. 5x 5.3 x9.5, 22 lbs sh. #RF20BLDE812H, \$150.00

CONTACTORS

CONTACTOR RELAY, 12 VDC coil & 12 V SPST norm-open contacts; 20 amp. 2x1.8x1.1; 1# #81-2450-1, \$3. 10/\$24.



SIEMENS CONTACTORS, 80 VDC coils, 2 lbs. NEW: #3TH12022 2 NO+2NC; contacts 230/600 V 3/1 amps. Aux contact 10A 240 VAC; 2.8x1.8x1.8. \$6.50

8PST CONTACTOR, rated 660 VAC 6 amps; coil 80 VDC. 3x4.5x1.8, 2#. Schindler #MRG-44E, NEW, \$14.95



24VDC CONTACTOR, SPST n.o. 28 VDC 50 amp contacts; 27 ohm coil. 2.5x2.7x 1.6, 1 lb. #MS24166-D1 \$4.75

INTELLITEC SPST Latching type. 12 VDC 50 Amp contactor designed for use in RV's; flange mt. 3.5x 3.5x2.5; 1 lb #01-00055 \$6.50



Coaxial Devices



SPDT Microwave Switch designed for high performance in microwave systems to 12.4 GHz.

Has three TNC connections. Requires 24-30VDC. 3x2.70.9, Jay-El Products #D2-313B008, used, \$40.00

MINICIRCUITS #PSW-1211 DIODE RF SWITCH w/ 3 - SMA connectors. Freq-range 10 to 2500 MHz; insertion loss 1.7-2.7 db, VSWR 1.7 max. Switch speed 4 usec; 5 VDC control voltage. 2.5x1x2, USED, \$9.95



Broadband Coaxial Protector by Polyphaser #IS-50NX-C1, has male to female type N connections. Frequency coverage is 50MHz to 700MHz. Maximum Power: VHF 375W; UHF 125W. 1.8x2.5x1.5, Used Excellent, \$25.00 ea.; 5/\$100.00

NARDA 370-BNM TERMINATION, DC to 18 GHz 5 watts average 2 Kw peak; 1.05 VSWR. Type N male connection. 1.6"Hx0.8" diameter. Unused, \$21.95



Attenuators

ELCOM AT-53-10 ATTENUATOR, 10DB w/ SMA conn; Ag-plated, 1.5x0.5" dia. \$10.00

VARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 V down to 0.1 uv; 50 ohm impedance. BNC input & output connection; shaft 3/4"Lx 1/4" dia with gear drive. Silver-plated; p/o 0.01 to 50 MHz RF generator. 3.5x4.8x3.5, 4 lb #AT101/URM25, used, \$19.00



ROTARY TURRET 50 OHM COAXIAL ATTENUATORS from Empire NF-105 field intensity meter; to operate pull knob and rotate to next index. Mechanism is spring loaded to engage next attenuator element; 5"Lx3.4" dia, 5 lbs.

#ATTNF105-0-80, 0-20-40-60-80 db with BNC female chassis connectors on 7.5" cables. USED, \$24.95

#ATTNF105-40-90, 40-50-60-70-80-90 db; female BNC chassis & male N conn on 7.5" cable, \$19.95

#ATTNF-105-PR, one of each attenuator, \$39.50

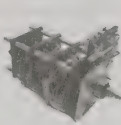
Rotary Switches



DAVEN-TYPE 18-POSITION, continuous turn; 2" dia. Zinc-silver contacts. 1/2x1/4" diameter shaft.

#3Z9825-92.2, \$3.00

3 deck 11 position Rotary Switch with multi leaf wiper arms. Bakelite decks. Comes with metal shield. Made by Davenport #B1381-51, 1/4" diameter shaft, 5x2.1x2.9, \$15.00



FIVE-DECK ROTARY, each 2-pole 4-position; bakelite. 4x1.6" diameter; shaft 1/2x1/4" dia #SW-RM39, Used, \$1.25

MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware #LED-M13-S, unused, \$1.50

ROTARY SW, 1.6" dia bakelite #SW-342, 3-deck 4P 2-pos, \$2.00 #SW-233, 2-deck 3P 3-pos, \$2.00

3-Pole 4-Position, #4-pos momentary; 1" dia bakelite. #SW-PRC-10, Unused, \$1.50

TECH-LAB precision, 4 pole 7-position w/ gold-plated contacts; 2-poles 5 amp & two 3 A. Shift 1"Lx1/4" dia; o/a 2.3x2.3 x2.5, 1 lb. #TL-4P7PS Used, \$5.00



ROTARY SWITCH KIT, six types: multideck & contacts, \$2.00



Rotary Switch Assy



Rotary Switch Assembly from Leeds and Northrup resistance device. One deck 16 position rotary switch with sixteen 5 ohm precision resistors. 3.1" diameter x 5.9" tall. 1/4" diameter shaft. Looks like unused replacement part. #RSA-5903, \$16.95

Sixteen position rotary switch with seven 8 ohm, one 60 ohm, one 4 ohm, one 3.6 ohm all precision resistors. Also on the assembly is a two section spiral wound variable resistor (2 ohm and 20 ohm section) 4.5"Dx5.2"Wx2.5"H. 1/4" diameter shafts. Looks like unused replacement part. #RSA-01302, \$14.95



RF SWITCHES



HIGH POWER RF SWITCH 2 deck, 4 position, ceramic motorized RF switch with progressive shorting. Requires 12 to 19 VDC input. 7"D x 8.8"W x 12.5" H, 8 lbs sh., used nice condition, #PS-12, \$125.00

6-POSITION CERAMIC RF TAP SWITCH for 100 W xmitter; 2.3x2.3x1.8, 1 lb. #3Z9605, \$3.95; 10 for \$32.



TAP SWITCHES



ELECTRO SWITCH TAP SWITCH, 9 Deck 3 Pole 3-positions: ABEFJ-BCFGJK-CDGHKL per deck. Rated 7.5 amps 125 VAC; 7"L x3.8" #ESI265096 used \$15

#LOV-230, 2-deck 4-pos continuous turn; 120/240 VAC 10/5 A. Shaft 3/16" dia, LESS knob. O/a 3"H. USED, \$2.50

THREE DECK 7-POSITION TAP SWITCH w/ screw terminals; 10 amp shorting contacts. 1.8x2.3x1 + 1.3" x 0.3" dia shaft. #ES32303LM, \$3.50



MINIATURE TAP SWITCH, 1 pole 7-position rated 1 amp 1x1/2". \$2.00

Toggle Switches



some single hole mount, some with mount plates; may be used or unused

AIRCRAFT-type Toggle, two hole mt: SPDT 5A/125V, #B-9A \$75 (on-off-on)

INDUSTRIAL-type TOGGLEs: SPST 8A/125V, #8817K2 \$35 (above momentary)

SPDT 8A/125V, #ST-42D (on-on) \$35
DPST 10A/125V, #ST50K \$50
DPDT 10A/125V on-on #8824K14 \$75
DPDT 10A/125V on-on momentary, #ST-52R, \$60
DPDT 6A/125V on-on; 1" mount barrel, 1/2" dia white ball cap, #TW-B87, \$75
4PST 15A/125V, #7661K5, \$1.00

LOCK-OUT SWITCH

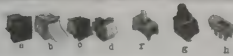


#8772K13, DPDT on-off-on 40 amp Toggle Switch with lock-out one side. Unused, \$7.00

CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

Mini Switches



Black= Blk. White= wh. NEW:

SPDT on-off-on, wh. toggle (b); Alco #MLD106E, \$.75

SPDT on-on, blk. rocker (c) JBT #MR2-123, \$.65

SPDT on-on, blk push-type Alco #MSP105D, \$.60

SPDT on-on 1-side mom; blk or wh push; CK8168 \$.65

SPST black rocker (not mini) Carling #123, \$.60

SPDT mom push switch; C-NC-NO., C&K 8125, 2/\$1.

DP3T one side mom. (f) toggle; Alco #CST-023TA, 2/\$1.

DPDT on-on slide (h), 6/\$1.

SUB-MINI SLIDE SWITCH, SP 3-pos: #LS13-131PC, 4/\$1.

+++++
Mini-Toggles, 120 VAC 6 A:
SPDT ON-ON, used, \$.60
SPDT On-Off-On, used, \$.75
DPDT On-Off-On, new \$1.25

----- LEVER SWITCHES -----

4PDT one side 2PDT other side, both sides mom.
#1155 new \$2.00

TV-2 tube test P1 lever sw; make 2-break 2. USED, \$2.00

Push Button

SWITCHCRAFT DW- Type, 9-button Push-on/

Push-off; each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1 1/4 size lamp;

1x6.3x1.5. #67097-506, NEW, \$.65

#67137-506, 13-button Push-on/Push-off; 8.8" W. \$.75

KLIXON 15 AMP PUSH BUTTON w/2.3" W mount flange; fits 1.4"x0.8"x 1.4" D hole. #43A8304, unused, \$1.50

MICROSWITCH ALM-20 push-On/ push-Off SPDT switch w/red 5V LED; 0.9" sq x 2"D. #ALM-20-5V, \$2.50

Misc. Switches

MICROSWITCH KIT, five SPST VARIOUS style. \$1.25

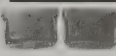
C&K KEY-SWITCH for electronic equipment; SPST 4 amp 125 V rated. Two keys; 5/8" dia, 1" depth. #CK-KY-SW, NEW, \$.4

ROCKER SWITCHES, 1.6"Wx0.6"Hx 1.3"D; mt flange 1.9"W
#0319, SPST, \$.39 ea; 3/f \$1.
#0320, SPDT momentary both sides, \$.65 ea. 2 for \$1.20

ROCKER DIP SWITCHES SPST for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #76SB04, 4 sw, \$.65 ea; 6/\$3.00

KLIXON THERMOSTAT SPST 4 amp 250 V. Open @ 170°F +3 ; 20 differential. 2.6" dia X 0.9"D. #C-2851-5, \$.300

HANDLES



HEAVY DUTY EQUIPMENT HANDLES on 3.7x2.5 steel plate with three 1/4" dia bolt holes; 2 lbs sh. #HAND-AM20, used, \$.350 per pair.

METAL EQUIPMENT HANDLES for mounting to panel fronts. 5/16" stock. 1.5"H x 4.25"W o.c.; with screws. #PNL-HAND, used, \$2.00/pair

Circuit Breakers

AN-3161- style PUSH BUTTON 5 amp breaker, 24-30 VDC; 2x2x0.8. \$1.25 ea

TOGGLE 30 VDC breakers:
#AN-3160-5, 5 amps, \$.75
#8751K5-10, 10 amps, \$.300

E-T-A BREAKER, small 1.9"H x 0.8 x0.4 250 VAC 0.5 amp; ETA #41-06-P300 unused \$1.95

AIRPAX BUTTON BREAKER rated 250 VAC/50 VDC 2.7 trip amp; 2.4H x1.4Wx0.6"D. #PR11-1-2.00A-XX-V, \$1.50

HEINEMAN ALM12H- type
5x2.8x2.3
32 VDC 8 A \$.250
32 VDC 20A \$.300
60 VDC 20A \$.350

#JA2-A8-A, 240 VAC; hold 17A, trip 21.25 A. \$.200

HEINEMAN CD2 type breakers, ganged two pole. 4.8x2x4, 2 lb NEW

#CD2-Z10-1, (Rt.) 0.035 A DC Cur P. (Lt.) 68 A 270 VAC 60 Hz Cur 3. \$.250

#CD-2-Z74-2, 10 A 132 VAC T.D. 2; 125 A 10 VDC T.D. 3. \$.275

#CD2-A3-DU two 18 amp 240 VAC T.D. 1. \$.300

+++++
HEINEMAN PUSH RE-CIRK-IT, 5/8" dia "fuseholder-size"; 2.5 amp 50 VDC or 250 VAC. #KD1-2.5, new, \$1.50

Fuse & Fuseholders

Large Industrial Style Fuse by Gould-Shawmut Amp-trap. Form101

300 Amps at 500 VAC: 4.3"Lx1.4"D
#A50P300, \$.795

Shawmut Amp-trap Form 600, 175 amp 600 Volt AC-DC. 9.5"Lx1.5"D used \$5

GE Type EJO-1, Model 9F60FJD100, Size D, 12" clip spacing, 100E Amp, 4800 V, 15.9"L x 3"D dia, 10 lb unused \$19

3AG 1 amp FUSES, 10/\$1.00; SLO-BLO 3AG 1 amp; 10/\$1.25

+++++
LIGHT INDICATOR FUSEHOLDERS for 3AG fuses; 1.6"D behind panel. O/a 2.9"L; used:

#FU-HKX, 22-33 V amber, \$.200
#FU-HKL, 115 V, clear \$.250

5AG / AGU In-line Fuseholder, used, \$2

Standard 3AG panel mount fuseholder, post type, quick connect. #342038, new, \$.75

KNOBS



#KN-SP Fluted Spin Knob 1.6" dia w/ crank, has 2" dial skirt that reads 0-100; Fits 1/4" dia shaft. \$.500
#KN-LS, as above but less skirt, \$.450

ARMY SPIN KNOB, retractable crank w/ beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, \$.5

#SP-348 SPIN KNOB w/ crank; fluted 2.1" dia, 1/4" dia shaft. alumi num. p/o BC-348. \$.600

LARGE FLUTED KNOB for 1/4" dia shaft O/a 2-3/8" dia. used:
#KNB-238-25, \$.150
#KNB-LCP, for 3/8" shaft, \$.25 each; 2 for \$2.00

1.3" dia FLUTED KNOB w/ 1.8" dia skirt; brass insert f/ 3/8" dia shaft. #KN04, \$.70

#KN03, as above except 1.6" dia w/ 2" dia skirt \$.90

DUAL CONTROL KNOB as used on H-P & TEK scopes; 1-3/8" dia skirted black base for 1/4" dia shaft with 3/4" dia red top knob for 1/8" dia shaft. #KN-DC-HP, used, \$.100

Pointed Knob for 1/4" diameter shaft; 1.8" L x 1" H x 0.8" W. #KNBN-026-90, 3/\$1.00

Rounded BAR KNOB, 1-1/8"L x 3/4"Wx 3/4"H. Brass insert f/ 1/4" dia shaft. #KNART13, 2/\$1.

DARK BROWN fluted plastic 1" dia X 0.5"H f/ 1930's & 40's radios. #KN-BD1, 3/\$1

ALCO KNOBS, modern plastic knobs with brushed aluminum inset fit 1/4" dia shaft. #ALKN6, 5/8" dia x 3/8" H for 3/16" dia shaft, 4 for \$1.00

KALRAD KNOB SET, five 1/2" dia plastic knobs with 5/8" dia skirt, 1/4" dia shaft. Chrome insert, & set screw; #KAL5K, NEW \$1.25

Strain Insulators

EGG-TYPE PORCELAIN STRAIN INSULATOR, 1.3"L x1"x1" with two 1/4" di holes. #INS-EGG-95, NEW, \$1.25

RP-5 STRAIN INS, 4"Lx0.8" dia. two 1/4" dia holes 2.75" O.C. #3G1250-64.15, \$1.25

GUY-INS-1 Strain brown porcelain 4" long 3/4" dia. 2- 3/16" holes for guy ropes. \$1.10

BROWN porcelain insulator 8.5"Lx1.8"H x 1"D with reinforced 0.5" dia hole on ends; 3lbs sh. #SPI-85181, \$1.95; 2/\$3

GUYINS-2 Strain brown porcelain 2 3/8" long 1 1/2" sq. 2-3/8" holes. \$4.00

Stand-off Insulators



Stand-off insulators crows feet type. Brass plated bases and terminals: D= Diameter H=Height M=Mount base holes' center distance ST=Screw terminals CT=Clamp terminals

#B-H3-D1.25-ST3, brown ceramic; M=2.25". Term. cap: 7/8x1 5/8" dia; 2 lbs. \$.25
#W-H5-D1.25-ST, white; M=2.625". Term cap; 3/8x 1 1/4" dia. 3 lb \$.75
#B-H5-D1.25-CT, white; M=2.25". Term cap; 1x1 5/8" dia. 3 lb \$.400
#B-H7-D1.25-ST, brown, M=2.6", Term cap 1x1 3/4" dia; 3 lbs. sh. \$.475
Quantity Discounts on above! 10-25 ea (1-type) 20% off; 25% (26-99), 30% (100)

STAND-OFF with CLIP for clip-in resistors or capacitors. 1"H x 0.8" square insulator with clip for 0.5" dia cap, #NS4W1208, \$1.50

PORCELAIN STAND-OFFS, no bases but screw threaded:

#P-4H-75D 4"Hx 0.75" dia; 8-24 threaded. \$.75 ea
#P-7H-100D, 6.8"H x 1" dia; 10-24 threaded. \$1.00 ea

INSULATOR POST for mounting capacitors, coils, etc. 1.7"Hx3/8" sq porcelain; 1/8" di thru-hole near top; base threaded for chassis screw. #IP-1706, 4 for \$1.

#NL523W14, 2"Hx1" square; two 6/32 threads top and bottom 4/\$1.

MP-48A INSULATOR for WW-2 vehicular spring antenna base; 3.6"Lx2.6" dia, 4 lb \$16

COLLAR for MP-48A, fits bottom of base, \$.250

TPB-K2 1 pr. of large porcelain feed through. Base is 2 1/2" dia. ring for panel hole is 1 7/8". Has 7/16" dia. bolt hole. Hardware not included. \$5

Large porcelain insulator trans-former style with a 3/16" feed thru hole. o/a 1.9"Hx1" dia. #INS-8, \$1.

Small Ceramic Coil Form #CF-5, consists of 35 grooves in a 1.7" space. o/a 3.1"Hx1" dia \$2.50

Small Ceramic Coil Form #CF-1, consists of 10 grooves in a 0.5" space. o/a 1.7"Hx1" dia \$2.00

3 pin Plastic Coil Form #CF-3, which fits BC-611. o/a 0.9" dia. x 1.9"H, 2/\$1.

IND-K1 Coil Form Assortment has: porcelain inductor core 1 7/8" tall 1 1/8" base has 4 mounting holes. The winding core has 41 grooves for wire 10 holes on flat edge. 3 small porcelain cores with 3 wire grooves. The base has a 6/32 threaded hole. \$2.75

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HARDWARE

BRASS COUPLINGS for joining 3/8" dia X 3/4" long shafts, #23-77, 2 for \$1.00

HEX SPACERS male-female thread or female-female (f-f) :

Length	per 20	per 100
4-40 threads 1/4" dia metal		
0.75"	\$4.25	\$12.50
1.375	\$5.50	17.00
6-32 threads 1/4" dia metal		
0.375	\$3.00	\$10.00
0.625	\$3.50	12.00
0.75	\$3.75	12.50
1.5 (f-f)	\$4.25	14.50
8-32 threads 7/16" dia:		
3.0	\$7.00	21.00
1/4"-20 threads 9/16" dia:		
3.25 (f-f)	\$4.25	20/\$10
1/4"-28 threads 7/8" dia:		
2.87	4/\$3.50	20/\$14

U-106 TERMINAL POST "push" spring-loaded; silver-plated. Threaded 1"; o/a 1.9"H. USED. \$1.00 EACH



#BP-NC Terminal Post, nylon cap, spring-loaded 1.8"H, \$.75 each

HARDWARE ASSORTMENT of washers, screws, nuts, rivets, terminals; 2 lb \$2.



TM-184-PT TERMINAL STRIP with 28 silver-plated 0.8"Hx0.4"W

spring push-down binding posts on 15.3x3.9 x0.4" thick black phenolic board. Phenolic may have minor chips; 4 lbs used, \$20.00

#TM-184-ST, older version of above with 0.6" dia white-brass screw-down terminals, used, \$22.

TERMINAL STRIPS, UNUSED:
4-TERMINAL pairs, 4"Lx1.8", \$.50
7-TERMINAL pairs, 4"Lx0.8", \$.65

AUGAT single 6-terminal PC mount: 2"Lx0.6"W: #4PCV-06, 10/\$7.50

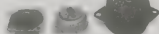
VARIABLE TERMINAL STRIPS, pairs removable to decrease or increase length.

#GE-V12-TERM, 12 terminal pair 1.3Hx8.3Lx2"W \$.50
#BUC-V8-TERM, 8 terminal pairs 1.3"Hx3.9"Lx1.1"W. \$.20.00

5BK-22 TERMINAL BOX, has three 13 terminals AN-3436 strips and two 9 terminals; 10/32 studs extend thru phenolic strip and have solder lugs. 4 lbs. UNUSED \$3.00

SHOCK MOUNTS

you bolt to equipment.



STYLES: A B C

#SM-4A, 4 #, \$.45	SM-6A, 6#, \$.50
-9A, 9#, \$.60	-12A, 12#, \$.75
-12B, 12# \$.85	-15B, 15#, \$1.00
-24B, 24# \$1.25	-50C, 50# \$1.50

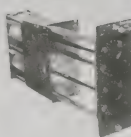
RUBBER EQUIPMENT PADS, 5/16" dia self-adhesive; 40 per sheet. #47-86, 2 sheets for \$1.50



Dual Red & Black Binding Post accept common banana plugs. Mounted to a 1.4" x 1.7" plate. Also has 7" wire with spade lug. #DBP-7, Unused, \$1.25

5" male to male banana plug cable, #B-5, \$.95

Twin Cavity Filters



TUNABLE TWIN-CAVITY BANDPASS FILTERS, gold-plated cavities have tune knobs, dials, and rear N-connections. Designed for military TRC-24 radio system for specific frequency ranges; usable and/or adapt for civilian purposes. 7x2.5x9.5, 8 lbs. Used, \$22.00 each.

F-196/U 184-205 MHz F-199/U 224-254 MHz
F-200/U 254-284 MHz F-201/U 284-314 MHz
F-203/U 344-374 MHz

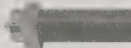
* F-194/U 142-163MHz, used excellent, \$45.00 *

* F-197/U 205-225 MHz, unused, \$30.00 *

* F-204/U 374-404 MHz, unused, \$19.95; 2/\$30.00 *

Bandpass Filters

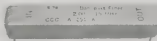
F-1482/GRC BANDPASS FILTER, three 30-88 MHz tunable helical cavities with dial locks and 1.5" dia 0-60 Watt meter; switch for 6 or 60 W. Reflected or Forward W. BNC output connection; special RF input connection. Rugged military design; 8.8x2.5x9, 10 lbs sh. GOVT-RECONDITIONED, \$65.00



K & L #6B110-257/HQ26-OP/OP Tubular Bandpass Filter. Six section filter.

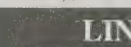
26 MHz BW. 200 watts. VSWR = 1.5:1. Center frequency is 257MHz. 50 and 75 ohm impedance. SMA male connections on each side. 1 1/4" diameter x 6.8" long. 3 lbs sh. Used Excellent, \$16.00

A-251-A Bandpass Filter 2.0 - 3.15 MHz. 3"X3/4", Unused, \$5



116-150 MHz FILTERS

TUNABLE VHF FILTER for 116-150 MHz at 15 watts. Has two screwdriver adjust ports and two SMC connections. Sealed can; 1.5x5 x3.3, 2 lbs sh. #MFC-2510-1, NEW, \$15.00



LINE FILTERS

DELTA EMI 3 AMP FILTER with 3-prong plug; 115/230V 60 Hz. 2" W mount x 2" D; fits 1" x 0.8" hole. #03GEG3H. \$1.75



CORCOM EMI 3 AMP filter with solder connections. 115/VAC 50/60Hz. 2.7x1.7x1.2, used, #3W1A \$1.50

TOKIN #VG-215F, 250 VAC 15 amps 50/50 Hz with spade terminals; 2.6"Lx1.8" dia, 1 lb NEW, \$3.00
2x20 AMP FILTER, 115 to 250 VAC 48-440 Hz; 3.4x1.5x 3.2, 1 lb. #F-85066, NEW \$3.50; 10/\$25; 100/\$195

D C FILTER, 55 amps 30 VDC; two stud terminal, 2.8x5 x2, 2 lbs. #537-6615, unused, \$4.95

FILTRON #FA-380 RFI DC FILTER, 3 X 10 amps 28 VDC; 1.6x3x4.5, 2 lbs. Unused \$4.50

CRYSTALS

JK02 OVENS for CR-26 xtal. 6 - 24 VAC/DC; plug into octal socket. Less totals; USED
#251B1001 for one xtal, \$2.25
#251B1003 for two xtal, \$2.75

FT-241 XTAL SET for BC-604 (SCR-508/528) WW-2 xmitter 80 xtals (chan 0-79), \$85.00

200 KHz FT-241 XTAL, \$4.00

XTAL SOCKET ADAPTER for two xtals w/ 0.5" O.C. pins; octal base. #2Z307-166, \$1.50

PUSH-TO-TEST



KORRY 260 PUSH-TO-TEST INDICATORS, double lamp-holder with miniature bayonet base; 1.5"Lx0.8"H. All UNUSED. Clear & amber lenses with "rocket launch"-related inscriptions: 400 CPS DRIFT TIMER, 11°C HEATERS THERMO-STAT, COOLANT VENT VALVE, STBY HTR COMMAND, JET PRESSURE SWITCH, 280 VA. Price: \$.75 each, 4 for \$2.00

Pilot Lights & Indicators



NEW 50V NEON INDICATOR, 1-3/8" long x 3/8" dia; TINY #3495 clear lens w/ "B" 3/\$1.
#3496 clear lens w/ "7" 3/\$1.00

GRIMES PILOT LIGHT, as used in aircraft control panels. Takes #327 or similar lamp. Used. \$.65 each

SUB-MINIATURE NEON PILOT LIGHT with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1.4" L; includes neon bulb.
#PIL007, \$.35 ea; 4/\$1.00

DIMMER LIGHT w/ NE-51 bulb; 1/2" dia clear jewel. Fits 5/8" dia hole; o/a 3" L.
#PIL-C433, used. \$.75 ea

LAMP HOLDERS for 327 lamps; fit 1/2" hole. Flat WHITE numbered lenses; specify: "4.5, 5.6, 7.8, 9" or YELLOW "MAX". #0934, \$.55 each

#FLW-327 pilot light w/ 327 lamp; white lens. Used \$1.35



COLLECTOR BULBS

Unusual craft and projection lamp bulb: nice glass and simple but elegant filaments like old radio tubes. With mogul base; may or may not work:



EDISWAN PROJECTION, 6-8 A 200 W; 5.3X1.4" dia. \$3.00

T-8 PROJECTION BULB, 200 W 3.4"H x 1" dia; GE #PH/200T8SC, \$2.00

T-8 PROJECTION BULB, (CFC) 150W 120V, 3.4"H x 1" dia; GE #PH/150T8/70, \$2.00

MINIATURE LAMPS

STK#	VOLTS	AMPS	BASE	BULB	4 pk	10 pk
14	2.47	0.3	min screw	G 3-1/2	\$1.75	\$3.50
24-68M	24	0.68	DC bay	B-6	\$1.25	\$2.50
41	2.5	0.5	min screw	T 3-1/4	\$2.00	\$4.00
47	6.3	0.15	min bay	T 3-1/4	\$1.75	\$3.50
130	6.3	0.15	min bay	G 3-1/2	\$2.00	\$4.00
130	28	0.17	min bay	T 3-1/4	\$1.75	\$3.50
323	3	0.19	u w/ urm-25 T	1-1/4	\$8.00	\$16.00
387	28	0.4	sc midget	T 1-3/4	\$1.75	\$3.50
331	1.35	0.06	min flange	T1-3/4	\$3.25	\$6.50
511	2	0.25	min screw	G-6	.50	\$1.00
1021	4.5	1.25	RP11	SC pref	\$3.75	\$7.50
1813	14.4	0.10	min bay	T3-1/4	\$1.75	\$3.50
1843	28	0.22	min bay	T3-1/4	\$1.25	\$2.50
1815	14	0.20	min bay	T3-1/4	\$1.75	\$3.50
1820	28	0.04	min bay	T3-1/4	\$1.75	\$3.50
1886	6.3	0.80	min bay	T4-1/2	\$2.00	\$4.00
NE-51	115VAC	0.2	min bay	T3-1/4	\$3.25	\$6.50

EMAIL US YOUR INQUIRIES AT FAIRRADIO@FAIRRADIO.COM

COAX CONNECTORS

SO-239 UHF Female, \$1.10 each 10 /\$10.00
 SO-239AG Ag-plate, \$1.25 each
 SH-SO239 barrel mount, \$.85 each
 2H-SO239 2-hole mount, \$.85 each
 PL-258 UHF Female to Female, \$1.75 ea 10 /\$16.00
 M-358 "T" for two PL259 & one SO239, used, \$1.50
 UG-176, reduces PL-259 to RG-59 coax, \$.35 each

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptable, (r/a) right angle; (U) = Used, (Un) = Unused.

TYPE BNC: UG-88m (RG-58) U \$.75 ea
 UG-260 m (RG-59) U \$.60 UG-290 f panel U \$1.
 -185 f panel Un \$1.75
 -274 "T" 2-f to m, U \$.4. -909 bulk U \$1.
 -273 to UHF, Un \$2.00 -306 R/A adapter,
 -282 to post \$1.50 used, \$1.75
 UG-913 r/a U \$1.00 -255 UHF-BNC \$3.

TYPE N: UG-21 m (RG-8) NEW, \$4.00
 UG-58 f chassis U \$2.50 UG-27 R/A m-f U \$2.
 -536 m (RG-58) U \$2.
 -593 f bulkhead for R-59-62, used \$1.50
 -1052 f bulkhead for RG-58, used, \$1.50
 -201 ADAPTER, N to BNC, used, \$2.50

TYPE TNC: Greomar #6000 (m) used, \$1.50 ea
 #6177 m R/A Un \$3. #6098 to N f bulk U \$3.

HN: UG-59 U, \$5.00 UG-920 m-f R/A, \$6.
 UG-100 m U \$1.50 DA-113 dummy U \$4.00
 -109 f UG-100 \$1.50 UG-643 "C" f-f, \$2.50

Mini-BNC p/o R-390A, used, \$2.50 each
 Mini-BNC chassis-type p/o R-390A, used, \$2.50

HARDLINE CONNECTOR



Andrew Type #45AW-3 Hardline Type N Connector for use with FHJ5-50A jacketed 7/8" foam dielectric Helix 50 ohm coaxial cable and RX5 Radiax slotted coaxial cable. o/a 1 3/8" dia x 1 15/16" ht, Unused, \$24.95 ea; 2 / \$39.50

Heliac Type N

Type N male connector by Andrew #F4PNM-H. Works with Heliac FSJ-50B coaxial cable. Comes with tubing for strain relief. Coupling torque is 22-25 in-lb. Unused, \$17.00; 4 for \$60.00



HARDLINE COAX

HARDLINE COAX, 3/8" dia aluminum jacket, foam insulated. 3/32" dia solid copper wire:

#HLCX-3/8, \$.65/ft; 100 ft/\$65. 500 ft/\$225.

MINI-FLEXIBLE HARDLINE COAX CABLE, Belden 1573A (RG-402 50 ohm) with SMA connectors. M=male, F=female, RA=right angle



#507-169/170A, two M, 5" Length, \$9.00
 #507-171A, M-RA to M, 4.3" L, \$10.00
 #507-173A, M-RA to M, 11.5" L, \$11.00
 #507-175A, M to F-N-chassis conn, 8" L, \$12.00
 #507-176A, two M-RA, 3.1" L, \$12.50

0.5" dia FLEXIBLE HARDLINE (Cablewave 16733) with male N-connections (1-right angle); Various lengths as noted; 5 lbs sh. #HDL-16733: (length):

3 feet, \$15. 6 ft, \$18. 10 ft, \$22.
 12 ft, \$24. 15 ft, \$30. 22 ft, \$40.

AC LINE CORDS

Ground Fault Interrupt (GFI) line cord, 12 ft 3-conductor #18 AWG; w/ reset button. #18-GFI \$2.50



3-COND LINE CORDS:

#14-10FT, 10 ft flat w/ R-A plug; #14 wire. \$2.50

"PIGGYBACK" CORD, 8' 3-cond #18; plug has receptacle for another plug. \$1.65 ea

BUSINESS MACHINE CORD, 3-blade type w/ AC plug; 6' black, #18 AWG.

#HP-NS, \$2.00

#16-HP-NP, #16 AWG 3-blade line cord; no AC plug. \$1.95

HEATER CORD type HSJ, 3-cond 7.5' #16 wire; grey molded R/A plug. #HSJ-16, \$2.00

 AC LINE CABLE ADAPTER f/ 3-cond plug to 2-cond outlet w/ground; grey. #53-90, 3 for \$1.00

HOOK-UP WIRE

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over 1000 ft. Allow 2 lbs sh weight per 100 feet
 SIZE: #12 \$12/100 ft \$99/1000 ft

#14 \$7.50/100 ft \$48/1000 ft \$195/5000 ft

#16 SOLID \$4/100' \$24/1000' \$95/5000'

#22 SHIELDED \$3.50/100' \$22/1K' \$75/5K'

#26 SOLID \$6/500' \$9/1000' \$30/5000'

SDU-5 Wire Kit



Wire Kit provides parts to connect an SDU-5/E flasher to a vehicle (12/24V) battery or wiring. Kit includes the following: Voltage Converter, Adapter, (2) 3/8" Ring Lugs with Wire, (2) #8 Spade Lugs with Wire, (2) Battery Clips with Wire, (4) Connector Splices, (4) 3/8"-16 Nut. (2) 11.5" Cable Tie, 7.25" Cable Tie, and a Velcro Strip. 3 lbs sh. #CK-SDU, Unused, \$10.00; 3 for \$25.00

COAX CABLES

New manufacture to MIL-R-17A specifications. Prices PER FOOT for lengths indicated. In between lengths, use higher price. Less than 100 ft add 10% to highest price!

COAX	Ohms	100 ft	500 ft	1000 ft	2000 ft
RG-8/U	52	.32	.29	.275	.265
RG-58	53.5	.17	.16	.15	.15

COAX CABLES with connectors from military equipment. USED/UNUSED:

#CG-409 CABLE, 25 ft RG-58 with two BNC, \$4.50
 RG-213-1, 16" RG-213 coax w/ R/A N conn. \$5.
 CG-3444, 42" RG-214 w/ 2 UG-573 "C" conn., \$9.
 A303892-10, SMA (m): TNC (f) 8" jumper; \$4.50

RG-142 Cable 3' 3" long with type SMA screw on male going to a type N female on the other. The type N female does not have any nuts. Cable is rated for 50 ohms 5000 volt. Diameter of the cable is similar to RG-58. Various manufacturers. #RG-142-3, 2 lbs sh. Used excellent condition, \$6.50

- - - TYPE N - SMA CABLES - - -

From cellular installation:

Type N male to SMA male with 12" coax #N-SMA-12 \$3.50

Type N male to R/A N male with 29" coax #N-RAN-29 \$2.95

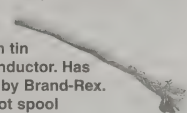
Type N female to SMA male with 33" coax #FN-SMA-33 \$3.75



Wire Galore !!

#22 Cloth Covered Stranded Hook-up Wire. Color choices: red, red/black, red/green, red/white, orange, orange/black, orange/green, orange/red, blue, blue/white, green, green/black, eggshell, tan/black, white/red/blue/black. PLEASE SPECIFY. #WCC-22, \$12/100ft, \$48/500ft, \$88/1000ft

Twisted two conductor 22 gauge stranded cable with tin shield. 19 strands per conductor. Has white plastic jacket. Mfg by Brand-Rex. #WT-22, \$29.95 for 500 foot spool



Twisted Twin-Axial RF cable with braid silver shield. Both conductors are 24 gauge with 19 strands per conductor. Cable rated at 77 ohm impedance. Light blue jacket. #WT-24, \$25.00/100ft; \$95.00/500ft

Woven Ribbon Cable, 40 conductor 30 gauge with 7 strands per conductor. Multi color. #WRC-40 \$6.25/25ft; \$20/100ft

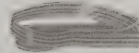
Woven Ribbon Cable, 13 wires of 2 conductors with shield. Each conductor is 30 gauge stranded. White jacket. #WRC-13, \$6.25/25ft; \$20/100ft

Woven Ribbon Cable, 6 wires of 2 conductors with shield. Each conductor is 26 gauge stranded. Cable also has two additional 22 gauge hook-up wires woven beside the other 6 wires. #WRC-8, \$5.00/25ft; \$16.00/100ft

24 gauge single conductor stranded wire with shield. Has white jacket. #W-1, \$10/100ft; \$32/500ft; \$55/1000ft; \$195/5000ft

RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

# RIB-20C	10 ft	100 ft	500 ft	1000 ft
Price per foot:	\$.50	\$.36	\$.30	\$.20



TAPE CABLE, 7-conductor #22 AWG vinyl-covered color-coded 0.8"W flat in-line style; 300 V max. 100 ft roll; 3 lbs. Brand-Rex #TC-1073-7, new \$13

BELDEN "CITY COLOR" SHIELDED TWIN-LEAD TV WIRE; two 26 AWG 7x34 stranded copper-covered steel conductors with Beldfoil shield. Recommended for VHF-UHF-FM use in high interference metro areas. 75 ft (3 lbs), \$8.00



LIGHTER DC CORD, 15 ft cord connects to car, van or RV cigarette lighter allowing use of 12 VDC appliances throughout the vehicle; #16 wire, 2 lb.

#LI-C15, \$4.00; #LI-C3, 3 ft lighter cord, \$2.50

INSTRUMENT TEST LEADS for meters, etc. One end has 5.2" L plastic prod; other end tinned wire. Military-quality; heavy insulation; o/a 36"L. One red & one black lead /set; 1 lb. #TS-LRB, \$2.50
 Pin plug to pin plug 5" cable, #MX-1907, \$9.99

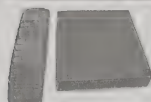


HEATSHRINK TUBING, 1/16" black Polyolefin. 90°C shrink temp. Made by Sumitomo #11438. 10ft \$3.50; 25ft \$7; 50ft \$12; 100ft \$20

CABLE TIES, All nylon ties listed below are common locking type and are standard 0.19" width.
 #CT-7, black 7" long, 100 for \$4.00
 #CT-11, bright green 11" long, 25 for \$2.00
 #CT-12, bright pink 11.5" long, 25 for \$2.25

PLACE YOUR ORDER OVER THE WEB AT FAIRRADIO.COM

CELL PHONE PARTS



CELLULAR PHONE PARTS BLOWOUT. We have available bag type cellular phones, dead, "as is". For parts/ experimenter use. These are older large cellular phones with

many useable components for the radio experimenter or various electronic applications. These units contain filters, crystal oscillators, power amplifier, surface mount components. Microphone, speaker. Nice Extruded aluminum case: 5.7x1.2xX6.3. #PH-CELL \$10.00; 4/\$30.00

Classic cellular "Brick" phone "AS-IS" for experimenter / parts. 3 x 1.8 x 7.8, 4 lbs sh. used #PH-BRICK, \$7.50 each 4/\$24.00



DC LOAD PANEL

"Loaded" with prime "clean" parts for DC power projects! Panel includes:

- * 0-30 VDC METER
- * 0-30 DC AMMETER
- * 4 ea 50 MV SHUNTS
- * 4 RHEOSTATS:

- 2 ea 225 W 3 ohms
- 2 ea 150 W 2 ohms

- * 12 Circuit Breakers:

- 6 ea 32 VDC 8 amps
- 6 ea 32 VDC 20 amp

- * 12 ea 1N1184 DIODES
- * 4 ea 2.4" dia KNOBS and

other parts. Panel is sold "less its On-Off and a 4STA selector switch. 18.8x23x6, 30 lb #DAV-LCP, \$49.00



PARTS BONANZA

Loaded with great pieces! These data line input filters are an excellent value

for the experimenter or hobbyist. Included are a regulated power supply board, wire-wrap type universal board with 36 fourteen pin IC sockets (with IC's) and display board (six digit spaced in groups of two) with drivers. 8 x 19 x 3.5, 13 lbs sh., used. #DLF-N, with nixie tube display, \$20.00; 2 / \$35.00



ILS Modulation Meter

FAA type FA-9438 Excellent parts unit for experimenters / hobbist. Has RF meter, 3 segment (or digit) LCD display, count up/down circuitry, glide slope and localizer osc. modules, mixer, freq. processor, open frame chassis, sturdy case, w/ cover 14x9x12, 20 lb \$39.50



Experimenter's Paradise

Motorola Control Receiver???? Great experimenter item. We have seen them in the past in some cities at intersections and believe their purpose was to intercept traffic signals when emergency vehicles needed to pass. Transistorized receiver covers 139.65 MHz with a five section pre-selector, crystal controlled oscillator and Vibrasponder® tone detector which allows a SPST relay to be actuated by a tone in 600 to 800 Hz range. SPECIFY if tone-match required. Receiver is housed in a plastic protective case. Power required 24 VAC. Has internal transformer and power supply. 7.2" dia. x 6" Ht, 5 lbs sh. #15D82032, \$10.00 each 3 for \$25.00

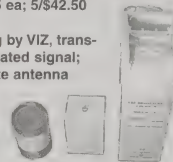


RADIOSONDES

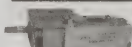


VAISALA RS80 RADIOSONDE, ultra-light disposable transmitter (400 MHz approx) is designed to be carried aloft by weather balloon and transmit data for air temperature, barometric pressure and humidity to a ground station. Consists of circuit board, dipole antenna, and trailing wire. Requires 9 V battery. Cute experimenter item! 12.5"H as shown; 3 lbs sh. NEW, \$9.95 ea; 5/\$42.50

#ML659(V)3 Radiosonde mfg by VIZ, transmits on 403 MHz RDF modulated signal; includes battery and separate antenna assembly, transducer polishing cloth, baroswitch pressure calibration chart, and instructions. 4.8 x 3.8 x 12.3, 4 lbs sh. Unused, \$12.95



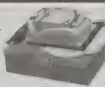
Dehumidifier Control



HONEYWELL DEHUMIDIFIER CONTROL as used in home dehumidifiers. Plastic element tape senses humidity and "opens" normally-closed 120 VAC contacts; has variable control. 1.8x4.5x1, 1 lb. #H46A1103, unused, \$2.95

Heating/Cooling Pump

THERMOELECTRIC 127-ELEMENT HEAT PUMP DEVICE, built for portable refrigerator; operates from 12-16 VDC. In original use, it is hot on 5"x5"x1.1" heatsink side but "freezing" on 2.6"x1.8" pump side. Reversing DC polarity reverses "hot-cold" effect. Pumps 50 watts @ 6 amps continuous. With 180° C normal-closed thermal cut-out switch. 2.5"H, 3lbs. #HPD-1250, NEW, \$19.95



MINI PUMP



12 VDC IMMERSION PUMP, probably from auto/RV market; 3/8" dia outlet moves about 1 gal/min/minute. Operates on higher voltages with increased flow rate for short periods: @ 24 VDC, 1.5 gal/min; @ 35 VDC, 2 gal/min. For non-flammable fluids only because fluid flows thru motor acting as lubricant. Use in fountains, solar water or science fair projects; 4"L x 1.5" dia, 2 lbs. #HAR-12V-IMP, NEW, \$5.95; 2/\$10.

MOTORIZED LENS

MINOLTA MOTORIZED LENS, focal length 3 mm with 6 mm zoom assembly; probably used in copy machine. Front coated lens diameter 60 mm; rear 15 mm. Focus and zoom mechanism each has small DC gear motor which operates at about 30 RPM @ 5 VDC or 60 RPM @ 10 VDC. 5.5x5.5, 3 lbs sh. #LMS-36-98, unused, \$20.00; 3 / \$50.00



Weaver D6 Scope



Unfortunately scope is without cross-hair. Still a nice low-cost spotting scope! 12.3" long, 2lbs New, \$17

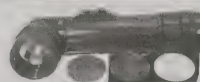
Quality 6 power scope fits common rifle mounts.

GRAB BOX

ASSORTMENT of used and unused commercial and government electronics parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons: \$12.00 ea; 2 / \$21.00 Allow for shipping charges!!



Military Flashlight



(not included). Clear diffuser, red signal, and white opaque spare lenses store in handle; metal belt clip. O.D. green plastic; current issue, 8.3"Lx2" dia. NEW \$6.75

MX-991/U FLASHLIGHT official rugged right angle military type made in USA. Operate from two "D" cell batteries

X-10 CONTROLLER

The Leviton #6242 Manual Controller. Used to control light and appliance modules. Compatible with Radio Shack and Home Safe remote devices. Can control 256 "X10" device codes. Unit has 16 Unit Code Buttons. Also, has 6 Command Keys: On, Off, Bright, Dim, All Lights On, and All Off. The controller is equipped with a key-operated lock-out switch that can be set in the "ON" or "OFF" position. The controller will transmit command signals to modules in your control system only if this switch is keyed to the "ON" position. Key pad mounted in sturdy steel case. Requires 120VAC 60Hz. 8.3x6.7x4.5, 7 lbs sh. Unused, \$9.95 ea, 2 / \$18.00, 4 / \$32.00



TORQUE DRIVERS

Mountz (M) and Torquemaster (T) torque drivers. These are unused / slightly used. Most have had ID numbers engraved on the handle.

(M) - TLS0135 red 3-190 ozf in 2-135 cN.m 1/4 inch hex female drive, Unused, \$49.50

(T) - Standard green, as above, 1/4 sq drive, Unused, \$52.00

(T) - Minor red 3 oz f in - 12 lb f in/200 gm f cm-14kg f cm / 2-135 cNm 1/4 hex female drive, used, \$25.00



CRIMPER - Thomas Betts TBM6 with

13470 green die, and 13471 blue die. With metal carrying case, used excellent, \$195.00

CARD SCANNER

Credit Card Scanner, uses optical system to read raised numbers of credit cards into a photo array. Small AC motor drives card through reader; w/ connector diagram. 5x5x4, 3 lb #ECR2020, used, \$3.50



FINGER STOCK



18" long x 1/2" ht strips of finger stock. Each individual finger has a width of 1/15" and a ht of 5/16". #FS-18 Unused, \$6.95 ea; 4 / \$20.00

MILITARY BADGE

Dark navy blue background with gold color "wings and propeller". 3" diameter. unused, #B-3, \$3.00



MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

COLLECTOR KEY

No 2 MK III CANADIAN CW TELEGRAPH KEY, which was first used with WW-2 #19 Mk III radio set, has unusual phenolic rocker arm and brass hardware. 1" dia pounder button is knob-like for grasping or tapping; three brass terminal screws on base. O/a 4.6x2x1.6, 1 lb #ZA16929, used-clean, \$22

Copperclad Board

Copperclad Board for making printed circuit cards. Phenolic backed; 0.07" thick, 1 lb #PH-4x18, 4"x18", \$.75; 4/\$2.50; 10/\$5.00

RING MAGNET

3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle lifts about 8 lbs. 5" dia metal casing has mount flange to protect and isolate magnet; two wires attach to spring-loaded contacts. Use as magnetic antenna mount or in robotic, audio or science projects; 2 lb #MAG-S91, \$3; 5/\$10

PSS-11 Metal Detector

(Polan P153) transistorized unit uses 2500 Hz signal in mutual inductance bridge circuit to detect metal objects that cause an imbalance in the 9"x11" search head's magnetic field; disturbance is heard in operator's headset. Handle ad-justs 29"-57" L. Also control pack with canvas bag & 7.3x24.5x16.5 transit case. Requires 7.3 to 10.8 VDC battery (BA-1389 5.1"x0.6" dia) 35 lbs. USED-not tested, \$75. MANUAL, repro, \$10.00



TV / FM ATTENUATOR

75 ohm TV/FM Attenuator by Blonder Tongue Labs stock # 4890. 0-890MHz with two F connectors and adjustment for attenuation. used, \$8.00

REMOTE CONTROLS

INFRARED REMOTE CONTROLS, Draco mfg remotes for satellite positioning and channel selection. Each has A-B-C-D-E-F Satellite Select, Up, Down & Go To functions; requires 9 V transistor battery. Cheap to play with or use! NEW-not guaranteed; 2.8x5.8x1, #IR-DR-AIM, "Aimers", \$1.50 ea; 2 / \$2.00 #IR-DR-CHAN w/ Channel Select 1-2-3-4-5-6-7-8-9-0, Mute & Seek; \$1.95 ea. 2 for \$3.00



EMERSON MULTI-FUNCTION REMOTE CONTROL

SET, intended for use with ceiling fan & light, but receiver circuit board and push-button remote transmitter should adapt to experimentation and your projects. Originally one button brightened light and other two controlled speed of special AC motor (not available). Circuit board outputs to motor are fixed voltages with sequence and voltage dependent upon positions of four switch DIP code switch. Sixteen codes possible; remote actuates sequence. Receiver is not isolated from power line so extra care is necessary when working with this device. Transmitter requires 9 V battery (not supplied). Hook-up info included; #RC-5100/1, new \$15



CALLING CARD TIMER



TELE COSTER I TELEPHONE METER, ideal for keeping track of the minutes expired on your calling card or for keeping "tabs" on the length and costs of long-distance phone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges can be determined before call. In sturdy, beige plastic case. Requires 115 VAC 60 Hz; 2 lbs sh. NEW, w/ info, \$8.00; 3 for \$15.00

TIMER BONANZA

CARTRIVISION TIMER CONTROL, part of early home video system; cheap gizmo with interesting parts: 115 VAC timer motor with upto 8 hr delay and SPDT contacts, 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT slide switch, etc. 3.9x9.5x2, 2lbs. #CV-TC87, \$1.00



60 SECOND TIMER



RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3/4" dia plastic case; 1 lb. sh. #56414, NEW, \$2.50 each.

NEOPRENE GLOVES

Stanzol Knit-Lined Neoprene Gloves. Multi-purpose chemical, abrasion and temperature resistant liquid-proof hand protection with durability and flexibility. Soft interlock knit lining insulates from heat and cold, absorbs perspiration, and provides easy on/off. Neoprene coating resists a broad range of chemicals. Non-slip "roughened" grip. Mfg by MAPA Professional. New, \$4.50 pair; 4 pair for \$12.00



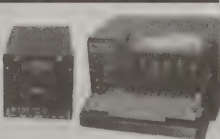
Please specify model number when ordering. Sizes available:

Small: #S-432;
Large: #L-408;

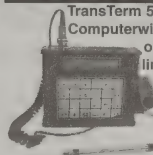
Medium: #M-420
Extra Large: #XL-348

TELETYPEWRITER

AN/UGC-129 TACTICAL TELETYPEWRITER with MU-734/UGC MAGNETIC TAPE UNIT, full duplex teletypewriter has 16K RAM and QWERTY keyboard with Edit, Mode Select, and Memory. Printer speed 120 CPS: 69-80 character line, single or double line feed. 64-character ASCII subset; ITA5 or Baudot codes. 8 baud rates 45.5 to 2400. Uses paper rolls 216 mm W x 127 mm dia friction feed, single or multi-copy. MU-734 TAPE UNIT stores 8-bit data for UGC-129 on standard cassette tapes; 300K char / tape. Requires 115/230 VAC 47-400 Hz; connectors not available. UGC-129: 9.5x15x18.5, 52 lbs. MU-734 7.8x8x13.5, 18 lbs. used reparable, \$75.00/ set UGC-129 only, \$49.50; MANUAL copy for later model (useful), \$35 w/ set



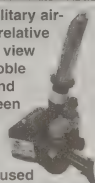
BARCODE READER



TransTerm 56 barcode reader by Computerwise. Model #TT5a-28, still shown on their webpage. Unit has two line display and RS-232 output. No software, but there may be some compatible shareware. The units pass self test. Unit has membrane keyboard and unit is well sealed. Includes keyboard, high quality metal wand, transformer, and info. 1.8x7x6.1, 4 lbs sh. Used \$39.50

AIRCRAFT SEXTANT

Sextant w/ periscope used in larger military aircraft to determine nightflight position relative to the stars. Has eyepiece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial, & transit case. Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lb #MS28011-1F, used w/ fiberglass case, \$59.50



AIRCRAFT GYROS



LEAR 3-AXIS RATE SENSOR with three #2157HB rate gyros; 3.4x6.6x4, 9 lbs sh. Lear #2162C, \$175.00

SPERRY ROLL & PITCH CONTROL GYRO, model K-6; Rotating center 5.5"x4" dia; removable top cover. 6.4"Hx8" dia; 6 lbs. #K6-8510, \$75.



AUTO BRAKE LIGHT



AUTOMOBILE BRAKE LIGHT, 5.5" W x 2.8" H red lens on black plastic stand; top swivel adjusts light angle. German mfg; o/a 7.5"H 2 lbs. #BL-G10005, NEW, \$2.95

FIRE CHEX

AUTO SHUTDOWN DEVICE automatically disconnects a vehicle's electrical system in a collision. Also use of its 80" spline control allows Fire Chex to manually "shutdown" electrical systems making it more difficult for a thief to steal a vehicle. With spline, fused line, mount brackets, info. 4.5x4.5x2, 6 lb #FI-CHX, new \$6 3/\$12



AUTO TEST SETS



HEYER AUTOMOTIVE TEST SETS from the 1950's with 4.5" chrome-rimmed meters! Nice addition to a car collector's display or for experiment! Not Tested!

MODEL 337 TACH / VOLTMETER, ranges 0-1000 & 0-5000 RPM and +/- 0-18 VDC. Amplifier button plus socket for timing light. With tubes 0A2 & 2D21; 6 or 12 VDC use. 13x5x5, 9 lbs. Unused, \$24.95

MODEL 336, same as 337 except also has Spark Advance Meter with 0-30 Distributor degree and 0-60 Crankshaft degree scales. With tubes 2/ 0A2, 2D21, 6AL5, 6AU6, 5696; 12 lbs sh. USED, \$27.95

12VDC COUNTER

6-DIGIT MECHANICAL COUNTER 12 VDC nonresettable; black numerals on white. Rear mount flange; o/a 1.3"Hx 1.5"Wx2.5"D 1 lb. #E07B10DC12, NEW \$2.95



CHECK OUT OUR LATEST FEATURE ITEMS AT FAIRRADIO.COM

DC Voltmeters

FS=2 VDC, 0-20/80 MA scale; 2.5" rd sealed. USED, \$5.95

FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. USED, \$5.00

FS=5VDC, 0-5/0-10mA DC, 3.5" rd, #S00-5V, Used, \$12.00

ES=5VDC, 5-0-5/10-0-10mA DC, 3.5" rd, #S00-5-0-5V, Used, \$13.00



DATA TECH 0-20 VDC DIGITAL PANEL METER, uses Sperry 7-segment 0.5"H

readouts. 10 meg ohm imped.; auto-polarity, OVP. Requires 115 V 60 Hz. Units have "weak" displays and/or "bad" segments. 1.9"Hx4"Wx5.5"D, 3 lbs. sh. #5313-220, "AS-IS", \$10.00

40-60 VDC, 4.3"Hx 4.8" Weston, NEW: \$15.00

POLARAD Mfg. FS=100 V DC, 0-100-500 scale, 4"Wx3.8"H, #M2/TV13, \$8.95



FS=150 VDC, 0-1500-5000 sc. 4"Wx3.8"H. #M4/TV-13, \$8.95



0-800 VDC, 2.5" rd white, unused, \$7.95

0-20 KV, FS = 1 MA; 2.5" rd black, USED, \$7.00

High Voltage DC 3 1/2" round panel meters removed from equipment. Each panel meter listed below comes with the associated large multiplier resistor creating full scale indication as shown below. Most resistors are 9 3/4" long x 1 1/4" dia.



0-10KV, #S00-10KV, \$20.00

0-6KV, #S00-6KV, \$19.00

0-5KV, #S00-5KV, \$18.00

0.9-3.4KV, #S00-3.4KV, \$16.00

0-3KV, #S00-3KV, \$16.50

0-1KV, #S00-1KV, \$16.75

AC Voltmeters

0-2 VAC, 2 1/4" rd white face, Non-linear, used, \$4.95

5.6-7.0 True Volts RMS, 3.5" rd, #S00-7V, Used, \$10.00

0-10 VAC 2.5" rd, Unused, \$6.00

0-10 VAC 3.5" rd, USED, \$6.00



VTVM METER 1-10 VAC scale expanded with 3.5 V centered; also 0-20 DB. 4.5" rd. #0899, NEW \$6.95

DC AMPS

EDGEWISE METER 0-8 A DC; 1.9"W x 3/4"H; #D2588, \$7.00

FULL SCALE = indicated: 0-25 ADC, 3.5" rd, NEW \$12.00 ES=30 ADC, 2.8" rd, Automotive, Black, \$8 ES=45 ADC, 2.2" rd, Automotive, Black, \$8 0-150 AMP DC w/ shunt, Modutec Mfg. 1.8"H x 2.8"W bezel; fits 1.6" dia hole. used \$10.00

FULL SCALE = 50 MV: 0-15 ADC 3.5" rd black, \$7.00 0-30 ADC 2.5" rd, used, \$6.95 0-500 ADC 4.3"Hx 4.8"; for Western Elec. USED, \$10.00

4.5" rd DC ammeter with scales -150 to 500A, -30 to 100A, -15 to 50, -3 to 10A. Full Scale = -15-0-50mv. Unused, \$8.95

SHUNTS

FS=50mv:

10 amps, o/a 1.3x2x1.7, Used, \$7.50

15 amps, lab grade quality, o/a 2.5x 8.8 x 1.4, 0.1%, Mfg by Sensitive Research, Unused, \$35.00

30 amps, o/a 1.3x2x1.7, Used, \$6.00

200 amps, o/a 1.4x6x0.8, Unused, \$4.

FS=100mv: 25 amps, o/a 1.5x6.1x1.2, Unused, \$10

DC Milliamps



FS=1 mA DC Hewlett Packard Instrument Panel Meter for HP-431C. Has linear scale 0-1, 3 MW and non-linear scale -10 to 0 DBM. 2" d x 4.6" w x 2.9" H

minus the bottom portion. Used, \$15

1-0-1 MA DC, 2.5" rd sealed; various mfg. USED, \$5.95

FS=5 MA DC, 0-150 VDC scale 3.5" sq. USED, \$6.95

FS=25 MA DC, 0-25/100/200 scale; 2.5" rd. USED, \$5.95

50-0-50 MA DC, 3.5" dia; Weston 301 or =, UNUSED, \$7.00

100-0-100 MA DC, 3 1/2" rd Weston 301, USED, \$5.95

150-0-150 MA DC, 3.5" round Simpson. UNUSED, \$7.95

0-200 MADC, 2 1/2" square Westinghouse. Unused, \$7.95

0-750mA DC, FS=5ma, 3.5" rd, #S00-750MA, Used, \$14.00

AC AMPS

50-300 MA AC, 2.5" rd sealed. UNUSED, \$10.00

FS=1 AMP AC, scale % Rated Current; 3.5" rd sealed, \$5.95

0-3 Amp AC, 3.5" rd Black, Unused, \$12

FULL SCALE = 5 amps AC; transformer required for indicated scale (not available): 0-125 A, 3.5" dia. \$9.00 0-150 A, 2.5" dia. \$8.00

0-100-200 AC AMPS FS=5 A GE-YOKO 2.5" sq. \$8.95

DC Micro Amps

0-50 UA DC, 2.5" rd sealed. used \$10

FS=50 UA DC, scale -30 -+150 w/"O" center; 2.5" rd sealed. #TRC30150, \$4

FS=100 UA DC, sealed USED: 3.5" rd, Red-Green-Red, \$6.00

ES=100 UA, 0-center Null scale; 2.5" rd. sealed. \$6.95

ES=100 UADC, 3.5" rd, Scale -10 to +10 %, Black face, Used, \$6.00

100-0-100 ua mirrored scale; indicated 1-0-1 / 500-0-500. 4.5"Wx 4.3"H, #M1/FLUKE used, \$10.95



FS=200 UADC clear plastic 2.5"Wx2.3"H meter with non-linear scales for 0-10 watts, 0-100 VSWR, 0-100 % Mod. Used, \$4.00

0-200 UA DC, various used 2.5" rd, \$6.

0-200 UADC and -8-0-+6 DB, 2.5" rd. sealed. NEW, \$4.95

FS=200 UA, 0-50 NULL METER 4.2"H X4.5"W; Simpson-style. NEW, \$10.



500-0-500 UA DC; 3.5"W X 3"H HOYT mfg. Scale: -50/-100-0-+50/+100 mA DC, -25-0-25 VDC. new, \$9.95

ES=500 UA DC, 0-center scale 1-0-1 / 30-0-30; 2.5" rd sealed. unused \$6.95

MATCHED METER SET

#M15V-12A with 3.5"

dia sealed meters 0-15 VDC and 0-12 ADC w/ shunt. Used, \$20



RF AMMETER

0-10 ANT-CURRENT (750 RF MA), 2.5" rd. USED, \$10.00

DB METERS

-7-0-+7 DB, FS=501.5 ua; 3.5" rd blk face sealed. NEW, \$5

-4-0-+6 DB 1 MW, FS=1 MA; 2.5" rd sealed, used, \$4.00

-6-0-+3 DB, FS=200 ua 2.5" rd sealed; used, \$4.95

I-177 TUBE TESTER METER

Micromhos, used, \$25.00

METER ASSORTMENT

Seven U.S. mfg meters 2 1/2" x 3 1/2" - up; mixed odd scales, FS-100 ua and up-- no choice; 3 lbs sh. \$10.00

I-70 B TUNING METERS

"Tune for Max" meter used in many WW-2 radio remote control boxes such as BC-311, BC-434 & C-4/ARN-7; 2.1x2.1 x1.6, 1 lbs. USED, \$10.00



Pressure Gauges

DURAGAUGE 7.5" 0 TO 300 PSI PRESSURE GAUGE. 1 PSI graduations. Quality metal construction. Face is 5.5" dia. with 3/8" fitting on back of gauge. Mounts on rear flange. 5 lb sh. Ashcroft "r", #PG-300 unused \$29.95



PRESSURE REGULATOR 0 - 500 PSI. Seems to be a quality unit, but no mfg. or country of origin on the unit. 2.5x1.8x3.3, 2 lb sh. #PR-500, \$7.95



0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, \$5.50



#M6000-PSI, 0-6000 PSI 4" dia 270 degree scale; 7/16" dia fitting. O/a 6" dia. NEW, \$14.00

WATER GAUGE



3 1/2" Round Gauge reads negative 80 thru positive 80 "Centimeters of Water" in increments of 2. Has 1/8" threaded hole on back. Made by Marshall Town #92361, Unused, \$7.50

FREQUENCY METER

60 / 400 HZ REED FREQUENCY METER two reeds-- one 60 Hz, one 400 Hz-- vibrate when freq approached. Use a 20K ohm resistor for 115V operation. 2" dia; fit 1.5" hole. #FM-TS382, used, \$9.95



RUNNING TIME INDICATORS

mechanical 4-digit 115 V 60Hz. 0.8" Hx.1" W bezel; fits 0.6" sq hole. #K49201P2 New, \$13



3 1/2" Round Running Time Meter by Cramer Division Type 635EAA. Requires 115VAC 60Hz at 2.7 watts. Reads upto 999,999 hours. Reads in one hour increments only. Does not read in tenths. 3/10 RPH. 3" depth. Comes with mounting hardware. #RTM-115, Unused, \$19.95



Same as above except 440VAC 60Hz and reads upto 99,999 hours, #RTM-440, Unused, \$14.95

GALVANOMETERS

Used in test bridges to indicate slight variations in current; 1 mm increments:



LEEDS & NORTHPROP #18876, 10-0-10 scale, sens 0.1 ua/mm. CDRX 10K ohms; 500 system res. Period 4 sec; w/ Balance "lock". Behind panel: 4"D x 1" dia; front 3"H. New, \$25.00

GALVANOMETER 15-0-15 scale, sens 1 ua/mm. Meter coupled to mirror for photo-optic read. No Balance "lock". Behind panel 3"D x 2" dia; front 2.5" di, 2lbs shipping. #GALV-726667, \$18.00



CALL US AT 419-223-2196 or 227-6573

24 HOUR FAX 419-227-1313

500 MHz H-P COUNTER



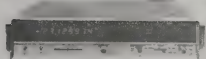
HP-5345A ELECTRONIC COUNTER, solid-state 9-digit plug-in type measures DC to 500 MHz channels A & B

without any plug-in. Function Select: Plug-In, Freq A, Period A, Time Int A to B, Ratio B/A, Start Stop. Channel controls 50 or 1 M ohm input, x1/x10 Atten, AC-DC, and Level. Requires 100/120/220/240 VAC 48-66 Hz; 5.3x 16.8x19.5, 42 lb sh. USED-reparable, \$250

HP-5328AF/096 ELECTRONIC COUNTER, solid-state modular design; counts upto 512 MHz on 9-digit LED display, 10 MHz reference oscillator, input for external freq-standard. Universal 100 MHz Module controls Channels A & B functions LEVEL, AC-DC select, ATTEN 1-10-100, and Marker output. Sensitivity 25 MV to 40 MHz; 50 MV 40-100 MHz. Channel C module provides 5-512 MHz range, 15 MV rms sensitivity. Trigger fixed; 50 ohm impedance. With Option 011 HP-1B computer interface & manual repro. Requires 100/ 120/220/240 V 48-66 Hz; 3.5x 18.5x19, 28 lbs. USED-REPARABLE, \$195 CHECKED, except for HP-1 computer interface, \$450.



18 GHz COUNTER



HEWLETT-PACKARD 5340A FREQUENCY COUNTER, covers 10 Hz to 18 GHz with automatic amplitude discrimination feature allowing counter to select largest signal in 250 MHz 18 GHz spectrum. Has 8-digit display. Sensitivity -30 dBm, 10 Hz-500 MHz; -35 dBm 500 MHz-10 GHz; -25 dBm 10-18 GHz. Input impedance 50 ohms; 10 MHz crystal time base. Has Self-Check and N and BNC input connections. Requires 115/230 VAC 48-66 Hz; 3.5x 16.8x18.8, 31 lbs sh. USED-CHECKED, \$1095.00

SWR Measuring Set

AN/USM-37D STANDING WAVE RATIO MEASURING SET for SWR measurements over 3 to 12.4 Ghz. Consists of Hewlett-Packard 415E SWR indicator, 444A untuned probe, 806B 3-12 GHz coaxial slotted section, 809B slotted carriage, H810B (7-10 GHz) & X810B (8-12 GHz) waveguide slotted sections, H & X281A waveguide to coax adapters, HX292B waveguide adapter and fiberglass case. Range 70 dB in 10 & 2 dB steps. Meter scales for SWR: 1-4, 3-10 (NORM), 1-1.24 (EXPANDED) and DB: 0-10 (N) or 0-2 (Exp). Requires 115/230 VAC 50-400 Hz. HP415E: 7.8x6.2x11; 40 lbs. used reparable w/book, \$295.00



X Band Echo Box



TS-488A Echo Box covers 8990 - 9610MHz. A portable general purpose, field-type, hand tuned unit used to provide a simple and rapid means of determining the overall system performance of radar sets. It is used to make the following radar equipment checks: comparative measurement of the average power output of the radar transmitter, determination of the frequency spectrum, multiple moding, and frequency pulling of the radar transmitter, and the speed of recovery of radar T-R box and receiver. Resonance is indicated by meter deflections and frequency is read directly on the tuning dial. Comes with AT-68 Pick-up Antenna, and CG-92 Coax Cable, and Cover. 24 lbs sh. 9x17.5x9, Used, \$250

mining the overall system performance of radar sets. It is used to make the following radar equipment checks: comparative measurement of the average power output of the radar transmitter, determination of the frequency spectrum, multiple moding, and frequency pulling of the radar transmitter, and the speed of recovery of radar T-R box and receiver. Resonance is indicated by meter deflections and frequency is read directly on the tuning dial. Comes with AT-68 Pick-up Antenna, and CG-92 Coax Cable, and Cover. 24 lbs sh. 9x17.5x9, Used, \$250



TEST EQUIPMENT BLOW OUT!!

All test equipment listed below is used reparable

AILTEK 75 Noise Figure Indicator, \$229	86242D 5.9-9.0GHZ 10mW PLUG-IN, \$375
ALLISON LAB #2CR HP/LP FILTER 600 OHM, \$135	8900B PEAK POWER CALIBRATOR, \$79
AUSTRON 2010B DISCIPLINED FREQ. STAND. \$495	Krohn Hite 7500 Amplifier, \$450.00
2000C LORAN C FREQUENCY MONITOR, \$495	LEEDS & NORTHROP 2 4735-S Wheatstone Bridge, 0.01-1111M ohm, \$175.
BALLENTEST 303-01 30HZ-8 MHZ RMS VOLTS, \$125	4754 AC-DC Decade Resistor, 0.001-10 scales \$75
6310A Test Oscillator 10Hz-1MHz, \$139	4755 AC-DC Decade Resistor, 0.01-100 scales \$75
9632M Digital Voltmeter, \$79	7553-K3 Potentiometer/U-Voltmtr, 0-1.6 V, \$195
BOONTON 91DA RF Voltmeter w/ probe, \$99	7555-K5 Potentiometer/U-Voltmtr, -5 uv-1.6 V \$295
91M RF MILLIVOLTMETER no probe, \$69.00	MARCONI TF791D Carrier Deviation Meter, \$75
COLLINS 7303-A4D TEST GENERATOR, \$295	TM7816 12 CHANNEL NOISE GENERATOR, \$175
ESI 250DA, RLC Impedance Bridge, \$129.00	MILITARY DA-727 DUMMY LOAD, \$175
291 RLC Bridge; Large Classroom - Lab Unit, \$239	OS-8 Training Scope DC-2MHz, \$45
ELECTROSTATIC VOLTMETERS - WRITE	TS-677 Sweep Generator 0.5-1200MHz, \$195
Fluke 893A AC-DC Differential Voltmeter, \$195.00	TS-62 ECHO BOX, \$75
1953A Portable Counter, \$99.00	TS-147F X-Band Test Set for 8470-9630 Mhz, \$175
8000 Series Digital Multimeter, Portable, \$39.00	TS-268E Crystal Rectifier Tester, used, \$16.95
332D/AB DC CALIBRATOR, \$595.	unused, \$22.00; Manual, \$8.50
335A DC VOLTAGE STANDARD 1 uv-1K V, \$645	USM-117 Scope DC-5MHz, \$100
GENERAL MICROWAVE 460B Frequency Meter, no probe, with manual, UNUSED, \$99.00	USM-338 Scope DC-75MHz w/ H.D. Case, \$250
GENERAL RADIO 1310A Oscillator 2Hz-2MHz, \$119	MILLIVAC URM-145B RF Voltmeter w/ Probe, \$169
1551C Sound Level Meter, \$135	MOTROLA AUTOTUNE DEVIATION METER, \$149
1633A Increment Inductance Bridge, \$850	Philips PM 3212, 5" rect. Portable, Dual, TV, 25MHz, \$129
1650B IMPEDANCE BRIDGE 1/C, R, L, D, Q, \$350.	Phillips PM3233, 5" rect. Dual, TV Trig., 10 MHz, \$99
HP-181TR MAINFRAME f/ spectrum analyzer, \$295.	Polarad 1108A 6.9 - 11.5 GHz Signal Gen., \$199.00
200CDR Wide Range Oscillator Rack Mt, \$69.00	RACAL 9303 DIGITAL RF LEVEL METER, 9 ranges 300 uV to 3 V; 100 KHz-2 GHz. \$275.
201ABR Audio Oscillator Rack Mt, \$59.00	RFL 829 CALIBRATION STANDARD, \$350.00
211B Sq. Wave Gen., 1-10 MHz, 600 ohm, \$59.00	ROCKLAND 5100 Synth., 0.001Hz-1.999MHz \$400.
214A 10Hz - 1MHz 200W Pulse Generator, \$150.	ROCKLAND 5600 Synthesizer, 0.1-160 MHz \$400.
214B PULSE GENERATOR, "like new" \$795	SIERRA 128A Freq. Sel. Voltmeter w/ manual, \$145
350D ATTENUATOR, \$59.00	360B SPECTRUM DISPLAY w/ manual, \$150
400 RMS Vacuum Tube Voltmeter Meter, \$59.00	470A-500 Hi Pwr Sig Gen 10-80W 190-260MHz, \$100
419A DC NULL METER, 3 uv-1 KV, \$125.	SIMPSON 467 DIGITAL RMS VOLTMETER, \$125
431C POWER METER LESS THERMISTOR-N/A \$75	Systrom-Donner 6152A Counter, \$79.50
1600A LOGIC STATE ANALYZER (SCOPE), \$199	TEK 106 SQUARE WAVE GEN. 10Hz-100KHz, \$119
3555B Transmission & Noise Measuring Set, \$99	114 PULSE GENERATOR 100ns-10ms, \$129
3746A Selective Level Measuring Set (opt 005, 088, H39), 50 Hz-32 MHz w/1 Hz resolution. \$995	130 L-C Meter w/ manual, \$95
3590A Wave Analyzer less plug-in, \$189.00	184 Time Mark Generator 10ns-1sec., \$139
4265B RLC Bridge, \$275	190B Constant Amplitude Signal Generator, \$125.
4437A Attenuator 0-119.9 DB, 600 ohm, \$99.00	230 Digital Unit, \$200.00
5180A WAVEFORM RECORDER, \$1450.	422 Battery Powered Portable Scope, \$175.00
5245L COUNTER less plug-in upto 50MHz, \$69.50	453 SCOPE, DC-50M dual, with rack mount, \$175.
5253B PLUG-IN 50-500MHz, \$50.00	454A SCOPE, DC to 150 MHz dual trace, \$295.
5257A PLUG-IN 0.05-18GHz, \$250.00	535A SCOPE, DC to 15 MHz, less plug-in \$100.00
5300A MEASURING SYSTEM COUNTER 50MHz, \$100	545B SCOPE, DC to 30 MHz, less plug-in \$125.00
5342A FREQUENCY COUNTER, 10 Hz to 18 GHz in two ranges; 11-digit display, Opt 001 high stability time base; 002 amplitude measurement. \$1295	564 STORAGE SCOPE, less plug-in \$149.00
6205B Dual DC Supply 0-40V .3A, 0-20V .6A, \$85.	585A 80 MHz SCOPE w/82 dual-trace plug-in \$180
8005B PULSE GENERATOR, 20 Mhz rep. rate \$159	SCOPEMOBILE CART for Tek 500 series \$60.
8007B PULSE GENERATOR, 100 Mhz rep. rate \$199	604/606 X-Y MONITOR, \$149.00
8403A MODULATOR CONTROL w/ 8732B, 8733B or 8734B PIN modulators, part of 141 spectrum\$250	RM 647 Scope Dual Trace Rack Mt, \$129.00
8614A RF GENERATOR, 800-2400 MHz, \$300.	922, 5" rect. Portable, Dual Tr., TV, 15 MHz, \$199
8708A Synchronizer phase-lock for 606B, \$150.	932 SCOPE 35 MHz (similar to tek 922), \$209.00
8742A REFLECTION TEST SET, 2-12 GHz, \$250.	5110 Rackmount Scope Mainframe, \$85.00
8743A/B REFLECTION TEST SET, 2-12.4 GHz, \$295	7603 Rackmount Scope Mainframe, \$150.00
86230B 1.8-4.2GHZ 10mW PLUG-IN, \$350	7613 Rackmount Storage Scope Mainframe, \$250.
86241A 3.2-6.5GHZ 3.2mW PLUG-IN, \$300	WAVETEK 24D LOW PASS FILTER, \$189
	154 Prog. Waveform Generator 0.001Hz-10MHz, \$395

H-P MICROWAVE

HEWLETT-PACKARD, 5 lbs sh. USED:

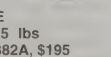
J532A, 5.3-8.2 GHz, \$195.00
P532A, 12.4-18 GHz, \$195.00
X532B, 8.2-12.4GHz, \$165.00
536A, 0.94 - 4.2GHz, \$50.00
537A, 3.7-12.4 GHz, \$195.00

VARIABLE MICROWAVE ATTENUATORS: 15 lbs

G382A, \$195	J382A, \$195
P382A, \$150	S382C, \$195
X382A, \$50	

DIRECTIONAL COUPLERS: 2 lbs sh.

G752C, \$99	J752D, \$125
P752A, \$99	R752A, \$125
X752C, \$99	X752D, \$99



Volt / Current Test Set

MA-1 Test Set consists of six test instruments and circuits: AC Voltmeter with ranges 300V, 150V, and 30V with frequency range of 25 to 1000Hz. DC Voltmeter with ranges 150V and 30V. Clamp-on Volt-Ammeter with volt ranges 600VAC, 300VAC, and 150VAC and amp ranges 1000A, 250A, 100A, 25A, and 10A with frequency range 300 to 1000Hz. Reed Frequency Meter with range 300 to 600Hz. Test Set also has a Phase Sequence Indicator and Continuity Test. Comes with cover and test leads. 4.3x16.5x15, 23 lbs sh. Used, \$35.00



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POWER METER



The Wavetek model 1018B LOG/LIN RF Peak Power Meter, measures RF power in 9 ranges from 100 uW to 10 mW. It is also calibrated in dBm (-20 dBm to +10 dBm). Direct input is 200mW maximum (peak or average). Controls for Trigger Delay, Cal Factor, Trigger Reset, Pulse Average, Trigger, Internal Trigger Level, Cal Factor, Calibrator. 14 x 17 x 5.7, 21 lbs shipping. Unused, \$995.00

ME-82/U Wattmeter



Wattmeter for 50-600 MHz range 120 watts at 52 ohm input. Has non-linear scales 0-120 W 2.5" dia meter & C connection. 5.8x6.8 x13.5, 17 lb USED, \$65.00

DUMMY LOAD



DA-189/GRC DUMMY LOAD, portable 50 ohm unit operates over 600 to 1850 MHz range @ 40 watts max. Output indicated on 3.5" dia meter; "C" input connection. 4x4x10, 9 lb. used \$40.00

POWER METER



MODEL DPM-3 RF POWER METER, has 50 and 150 watt ranges and converts the frequency range of 30 to 600 MHz. Type N connection for input, air cooled, 50 ohm impedance. Power reading shown on 3.5" diameter FS=200 uA meter; 7.5x5.5x16.5, 9 lbs sh. Used checked, \$99.50

Sound Level Meter



MITCHELL INSTRUMENTS S2A SOUND LEVEL METER. hand-held unit has scales 50 - 130 DB in 10 DB steps with 0-10 DB expanded scale meter. Measures A-weighted sound level as defined by OSHA; better sensitivity > 500 Hz. Designed to monitor noise level in work areas. Metal enclosed. Requires NEDA 1604 battery; w/soft case. 5.5x2.6x2.3, 2 lbs. #MIT013. NEW \$175.00

Noise Level Meter



NORTHEAST ELECTRONICS TTS37BR NOISE LEVEL-VU METER, 1 & 10 db/step attenuators measures level +23 to -95DBM; Noise 13 to -5 DBRN. Input

imped 900 & 600 ohm circuits balanced/unbalanced, terminating or bridged. Sensitivity -80 DBM @ 0 DB. Has large VU-meter with scales -15 to +3 VU-DB, -5 to +13DBRN. 8.8x19x7.5, 15 lbs. Used Repairable w/book, \$99.50

MEGOHM BRIDGE



GENERAL RADIO 1644A MEGOHM BRIDGE for sensitive measurements of insulation resistance of cables, transformers, etc; voltage and temperature coefficients; volume and surface resistivity of solids or liquids. Ranges 1 k-ohm to 1000 T-ohms (10 to 15th power) in ten steps; +/-1% accuracy to 1 T-ohm possible. Test volt ranges: 10-20-50-100-200-500-1000 V. Requires 105-125/210-250 vac 50-60 hz; 12.5x12.8x7.8, 24 lb used checked \$375

Mini Multimeter



Miniature Multimeter by Soltec #HM-102S. DC Voltage Ranges: 0-0.25, 2.5, 10, 50, 250, 500, 1000V. AC Voltage Ranges: 0-2.5, 10, 50, 250, 500, 1000V. DC Current Ranges: 0-50uA, .5, 5, 50, 500mA. Resistance Ranges 0-20 megohms in 4 ranges. Meter comes with carrying handle, and test leads.

Requires one 9 volt and two AA batteries. Batteries are supplied with unit but are NO GOOD. Meter size: 1.7x3.9x5.3, 3 lbs sh. Unused, \$8.95

ME-77 MULTIMETER

ME-77/URM-105C VOLT-OHM-METER, handy meter in ruggedized plastic case has DC & AC ranges 0-10-100-1000 V; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10KHz; has 3.5: dia FS=50 uA-meter. Requires two AA batteries for X1-X10-X100 ohms; 22.5 VDC battery (not available) for X1K-X10K ohm scales. With test leads. 6.6x4x3.3, 3 lbs sh. USED, \$24.95



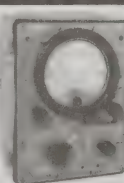
LINE TESTER



VOLTS, FREQUENCY, POLARITY INDICATOR, handy safety item allows "quick" test of an unknown electrical line to determine its general characteristics. "Glow" lamps show Volts 28, 115, 250 DC/220 AC, 500 DC/440 AC; Frequency 60 or 400 Hz; Polarity red-black Negative when red & black probes are inserted into line. 2.8x5.4x2.5, 2 lbs. shipping. AUL Model 1604, NEW, \$15.95

ME-297 MULTIMETER

ME-297/USM-223 FET MULTIMETER measures AC-DC volts to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC-DC 1000 ohm/V or DC 20K ohm/V. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps. Resistance scales X1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS=50 uA meter, red-black test leads and front cover. Requires 6-PXB1 1.3 V & 1-"C" batteries (not supplied). 6x7.4x8.8, 7 lb. Used-Repairable, \$34.95; CHECKED, \$54.95 Units converted so they require two double A and one C battery, CHECKED, \$89.50 MANUAL partial repro, \$8.50



VECTOR VOLT-METER



HEWLETT-PACKARD 8405A VECTOR VOLT-METER, measures both magnitude and phase over 1 to 1000 MHz in 21 overlapping bands. Also capable of determining insertion

loss, group delay of bandpass filters, complex impedance of mixers and antennas, RF distortion and in-circuit probing. Ranges: 100 uv to 1 V-rms full scale in 10 db steps. Phase: 360 degrees on 0-center meter with end scale ranges +/- 180, 60, 18 and 6 deg. Bandwidth: 1 KHz. Requires 115/230 VAC50-400 Hz; 7x16.8x18.4, 36 lbs, Used Repairable with manual repro, \$295.00

Hickok Multimeter



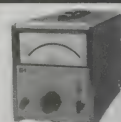
Hickok 1605M Solid State Multimeter, achieves high gain by using chopper to allow use of AC coupled amplifiers; Frequency range for AC measurements 20Hz to 700MHz. Full scale ranges 0-300VAC in seven steps and 0-150VDC in eleven steps. 0-150maDC in eleven. 0-500 Megohms in

steps Rx10 thru Rx10M. Includes AC and DC probes, two test leads, coaxial RF adapter, and manual repro. Requires 115/230VAC 50-400Hz. 10.5x5.5x8, 13 lbs sh. Used Repairable, \$85.00; Checked, \$125.00; Manual Repro, \$15.00

HP-410C Voltmeter, similar to above built less AC probe, Used Repairable, \$69.00; Manual repro, \$10. Probe for above WITH SET PURCHASE ONLY, \$99

HP-400GL VOLT-METER

HP-400GL ANALOG AC VOLT-METER, ranges 0.1 to 1000 V-rms in 8 decade steps; -80 to +60 db in 10 db steps. Response 20 Hz-4 Mhz; output 1 Vrms open circuit. Input impedance 10 megohms. Requires 115/230 VAC 48-440 Hz; 6.3x5.1x11, 9 lbs sh. USED-CHECKED w/book, \$135.00



HP-400E, similar to above but 1 mV to 300V-rms, Used Repairable, \$69.50; Manual repro, \$12.00

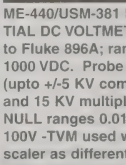
AC-DC VOLT-METER



ME-180/USM-116 AC-DC VOLT-METER, features 20 Hz to 100 MHz response and full scale Volt ranges 1-3-10-30-100-300 AC-DC and 1000 VDC. Also seven Current ranges 1 to 1000 DC MA and Resistance 1 ohm thru 1

Megohm. High frequency AC probe has 6923/EA52 tube. 7x8.3x9, 21 lbs shipping. USED-repairable, \$45.00; CHECKED, \$95.00 MANUAL for USM-116, partial repro, \$10.00

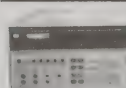
DC VOLT-METER



ME-440/USM-381 DIFFERENTIAL DC VOLT-METER, similar to Fluke 896A; ranges 0-10-100-1000 VDC. Probe for 1100 V (upto +/-5 KV common-mode) and 15 KV multiplier input. NULL ranges 0.01-0.1-1-10-100V -TVM used with 5-digit scaler as differential meter. Solid-state; w/cover & operator info. 115/230 V 60 Hz; 11x12.5x15, 30 lbs shipping. USED-REPAIRABLE, \$45.00



HP-3586B VOLT-METER



HP-3586B FREQUENCY SELECTIVE VOLT-METER, measures tone level, idle channel noise, weighted noise at voice & compare to carrier frequency over 50 Hz to 32.5 Mhz @ 75 ohm input; pulse level over 50 Hz to 100 KHz @ 600 ohms. Amplitude +20 to -130 dBm; resolution to 0.01 dBm. Option 003 measures phase jitter, noise-with-tone, signal-to-noise with tone ratio and single level impulse noise. Push-button control & entry; HP-1B programmable. NA Bell standard. Requires 100/120/220 /240 VAC 48-66 Hz; 7x16.8 x18.4, 62 lbs sh. USED-REPAIRABLE, \$595.00

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H-P ANALYZERS



HP-312B ANALYZER / FREQUENCY SELECTIVE VOLT-METER, 1 KHz to 18 MHz AM, AM AFC, BEAT, USB, LSB in 18 overlapping bands indicated by 7-digit readout.

Synthesizer for tuning phase-locked in 1 MHz steps. Bandwidth 200, 1000 or 3100 Hz. Reference level -40 to +20 DBM in 10 DBM steps. Amplitude -60 to 0 DB in 10 DB steps. Impedance selectable 50, 60, 75, 124, 135, 150 or 600 ohms balanced or unbalanced. Audio output > 0.5 V rms into 10K ohm full scale deflection. Recorder output 1 V full scale deflection open circuit. Requires 115/230 VAC 50-400 Hz; 16.8x10.5 x18.8, 51 lbs. USED-REPAIRABLE, \$195.

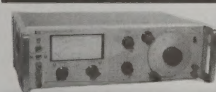
HP-310A, earlier version of above. 1KHz - 1.5MHz. Repairable with book, \$125.00

HP-3581A ANALYZER

HEWLETT-PACKARD 3581A WAVE ANALYZER, separates and measures frequency and amplitude spectral components over 15 Hz to 50 KHz with 1 Hz resolution. Uses 5-digit LED freq. readout & analog meter for amplitude analysis. Meter scales: Volts (30 V - 100 nV linear), 90 dB or 10 dB display (+30 dB to -150 dB log). Sweep scan width adjusts 50 Hz - 50 KHz. Requires 100-120/200-240 V 48-440 Hz; rackmount: 10.5x19.3x16.3, 30 lbs sh. USED-CHECKED, \$395.



Distortion Analyzer



HEWLETT-PACKARD 331A DISTORTION ANALYZER, measurement of total distortion 0.1%-100% in 7

ranges over 5 Hz to 600 KHz; harmonics to 3 MHz. 1 KHz filter attenuates frequencies below 400 Hz. Fundamental rejection >80 DB. Meter indicates 300 uv to 300 V rms in 13 ranges, 10 DB per range. Requires 115/230 V; 16.8x5 x15.3, 24 lbs sh. USED-CHECKED w/manual, \$225.00

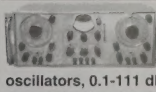
HP-332A similar to above but has AM Detector, \$235
HP-333A similar but w/ auto null & no AM Det., \$275
HP-334A similar but w/ auto null & has AM Det., \$295

Audio Output Meter

TS-585 OUTPUT METER for audio amps, filters, oscillators. Ranges 0.1-5 mw, -10-+7 dbm; 1-50 mw, 0-+17 dbm; 10-5000 mw, +10-+27 dbm; 100-5000 mw, +20-+37 dbm read on 3" dia meter. Multiplier circuit x0.1, x1, x10, x100 allows input impedances 2.5 to 20000 ohms in 40 steps; 30-10000 Hz response. 8.5x11x5.5, 17 lbs sh. USED, \$69.50; MANUAL, partial-reproduction, \$8.50

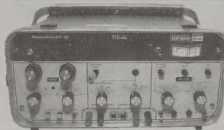


AUDIO TEST SET



MARCONI TF2005 DUAL AUDIO TEST SET, low distortion unit (designed <0.05%) consists of two 20 Hz-20 KHz oscillators, 0.1-111 dB Attenuator and voltmeter. Output 15 dBm into 600 ohms. Attenuator balanced 75, 150, 600 ohms 1 W max; unbalanced 600 ohms. Voltmeter ranges 1.5, 5, 15, 25 V; dB ranges +10, +20, +24. Requires 115 VAC 50-60 Hz; 7x17x11, 32 lb sh. Used Repairable with output, \$195.00

Transmission Test Set



Northeast Electronics TTS-44 Transmission Test Set. A useful device for test and measurement of audio VLF-RF frequencies up to 99.99 KHz. Has a four digit display switchable from Hz to KHz, and an edgewise DB meter. Also, has a small front mounted speaker with level control. Send portion of unit generates frequencies in presets (404, 1004, 2804 Hz) and variable ranges (35 - 375 Hz, 375 - 4.5 KHz, 4.5 - 60 KHz) and has an output attenuator from -40 to +10 db in six ranges. Both send and receive have two independent channels with bridged and terminated binding post and phone plug connections. 120VAC, and self contained battery operation (no warranty of battery condition) 12.7 x 15 x 7.5, 33 lbs sh. Used repairable, \$69.50
Manual Repro for above, \$20.00

Communications Test Set

Schlumberger Stabilock 4031 Communications Test Set 0.4 - 1000MHz for testing of receivers and transmitters.

This unit includes the following functions and more: signal generator, test receiver, frequency counter, power meter, modulation meter, audio generator, VSWR meter, AF power meter, rms voltmeter. These units are in excellent condition and pass their self test. We have run some of the functions, but this instrument has so many functions we could not fully test it. Satisfaction guaranteed. 21.5x14.7x9.4, 46 lbs shipping. Used excellent condition, \$5995.00



H-P Audio Oscillator



HP-201C Oscillator, Vacuum Tube Type covers 20 Hz to 20 KHz in 3 ranges; output 3 W (42 V) into 600 ohms; 50 V max no load. Distortion <0.5%; Attenuator 0-40 DB in 10 DB steps. Requires 120VAC 50-400Hz. 7.5x10.8x12.5, 20 lbs sh. Used Repairable, \$85.00;

With manual repro. Checked, \$119.50

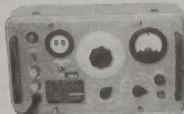
HP-200CD similar to above except 5 Hz to 600 KHz in 5 bands. Repairable, \$85; Checked, \$125

URM-127 Audio Oscillator

AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/-2%; stability +/-0.5%. Requires 115 VAC 50/70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. USED-REPAIRABLE, \$55.00; CHECKED, \$100.00

AN/URM-127A newer version, but no frequency meter. Used repairable, \$65.00 Checked, \$120.00

MANUAL for URM-127 or A, partial repro, \$12.00



HP Carrier Test Set



HEWLETT PACKARD 3550A CARRIER TEST SET for field testing transmission line and system characteristics. Includes solid-state 204C Oscillator, 493B Voltmeter, and 353A Patch Panel described below in transit case. Regulating batteries removed; 8.4x19.3x13.3, 36 lbs sh. Used Repairable, \$169.50; Manual repro, \$25

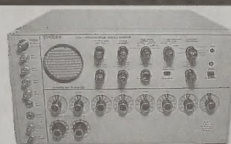
HP-204C AUDIO OSCILLATOR, AC line or rechargeable battery operation. Unit provides frequency from 5 Hz to 1.2 MHz in six overlapping ranges. Delivers an output voltage of >2.5 V-rms (10 mW or +10 DBM) into 600 ohm. Includes Sync Output: > 100mV-rms into <100pf over entire range. 5.1x6.3x8, 9 lbs sh. Used Repairable, \$90.00; Manual repro, \$12.00

HP-403B AC VOLTMETER, measures 0.001 to 300V-rms in 12 calibrated steps, -60 to +50 DB in 10 DB steps. Response 5 Hz - 2 MHz. Requires 115/230 VAC and four 6 V 225ma batteries in regulating circuit. 5.1x6.3x8, 9 lbs sh. Used Repairable, less batteries, \$69; Manual repro, \$12.00

HP-353A TELEPHONE PATCH PANEL, 50Hz - 560KHz. Output impedance 135, 600, and 900 ohms. Step 600 ohm attenuator. Two pair of matching transformers primary 600 ohm, sec 135, 600, 900 ohms. 5.1x6.3x8, 9 lbs sh. Used, \$30.00

SERVICE MONITOR

Singer Model CSM-1 Communications Service Monitor, serves as three instruments in one unit: Signal Generator, Frequency Meter,



and an Amplitude Modulation meter. As a signal generator it covers 50 KHz - 512 MHz with 1 ppm direct synthesized frequency accuracy and stability and has calibrated output levels in 1 db steps from -110 dbm to 0 dbm (0.7 uv - 224 mV rms). As a frequency meter it measures the frequency of a received signal at a level as low as 2 uv, either via antenna or direct connection, at an accuracy of +/- 1 ppm. As an amplitude modulation meter it measures the percentage of amplitude modulation of received signals in two ranges 0-30% & 0-100%, to within an accuracy of +/- 8% of full scale deflection. 17.1x16.2x9.2, 50 lbs sh., used repairable with op's manual, \$250.00

H-P Sweep Generator



HEWLETT-PACKARD 8601A SWEEP GENERATOR, compact unit covers 100 KHz to 110 MHz in two bands 0.1 -11 & 1 -110 MHz; +/-1% design accuracy. Output +20 to -110 dB in 10 DB steps w/ 13 DB vernier; CW or Sweep SYM-Video-Full. AM-FM modulation 1 KHz. Requires 115/230 V 60 Hz. 6x7.8x16, 26 lbs sh. USED-REPAIRABLE with output and book, \$395.00

NOISE GENERATOR

GENERAL RADIO 1390B RANDOM NOISE GENERATOR, produces wide-band noise of uniform spectrum for telephone transmission, vibration and acoustical tests. Freq: 5 Hz to 5 MHz in ranges 20 KHz, 500 KHz & 5 MHz; multipliers X1, X0.1, X0.01, X0.001. Output variable 30 uv to 3 V @ 20 KHz. Requires 105-125/210-250 VAC 50-60 Hz; 7.5x12.8x9.8, 16 lbs sh. Used Checked, \$125.00



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50 MHz Signal Generator



AN/URM-25 SIGNAL GENERATOR with accessories; covers 10 KHz to 50 MHz in 9 bands. Output to 100K uv into 50 ohms. Modulation 0-50% 400 or 1000 Hz; internal 1 MHz calibrator. Includes MX-

1487 impedance adapter, SM-35 antenna simulator, attenuators CN-223-224, test cable & manual repro. Requires 115 VAC 60 Hz; 11.3x14x10.8, 52 lbs sh. USED-REPARABLE, \$110.00 CHECKED, \$179.50

HP-8640B Signal Generator

HEWLETT-PACKARD 8640B RF GENERATOR w/ options

001/002/003 for 500 KHz -1024 MHz AM-FM-Pulse in 11 bands read on 7-digit display. Output +19 to -145 dbm (2 V to 0.013 uv); phase-lock FM. Opt 003 is reverse power protection. Requires 100/120/220/240 VAC 48-440 Hz; 5.5x16.8 x18.8, 53 lbs shipping.

USED-CHECKED w/manual copy, ~~\$4795~~ \$1495
HP-8640B opt 001/003, 20 Hz-512 MHz, ~~\$1495~~ \$995

PRICE
REDUCED



MILITARY VERSION of popular solid-state HEWLETT-PACKARD 8640B with opt 323 (AN/USM-323). Covers 500 KHz to 512 MHz AM-FM-Pulse in ten octave ranges using 6-digit LED readout; to 1024 MHz using external freq doubler (not available). Output: 0.01 uv to 2 V (-144 to +19 DBM); modulation 400, 1000, 5000 Hz. Pulse: 0.05-5 KHz. Resolution 10 Hz (0.5-4 MHz), 100 Hz (4-64 MHz), 1 KHz (64-512 MHz). USM-323 does NOT have these features: seventh 1/2 digit, X100 Expand, ext-count input, phase-lock. Mounted in transit case. Requires 103-127/207-242 VAC 48-440 Hz; 7.8x19.5 x22.4, 70 lbs. USED-CHECKED w/book copy, ~~\$995.00~~ \$795.00

80 MHz RF Generator

SG297/URM-103 18 to 80 MHz FM Signal Generator also the following IF frequencies 4.3, 5.6, 5.625, 5.650, 10.00, 11.5MHz unmodulated for testing IF frequencies of military receivers. Internal modulation 150 Hz, 400 Hz, and 1000 Hz, external modulation 0.1 to 30 KHz. RF output: 0.05 to 1.0 V; IF output 10 microvolts to 10 volts. Power input 115/230 V 50 - 400 Hz. Size 13 x 13.25 x 18. Shipping Wt 75 lbs. Used reproable, \$195.00 used checked \$250.00



Manual repro, \$12.00

Two-Tone Generator



SG-376 Transistorized Two-Tone IF Signal Generator for testing SSB equipment. Has two 20 Hz-20KHz audio oscillators and two independent IF oscillators. IF outputs: 497.5, 498.5, 501.5, or 502.5 KHz simultaneously. Output levels: 2-2.5V into 600 ohms (AF); 1-1.25V into 60 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Requires 115 VAC 50-400 Hz. 5.5 x 19 x 11, 35 lbs sh. Used reproable, \$95 Checked, \$155.00; Manual repro for SG-376 or 823, \$15

SG-823 similar to above. See web site for description. Used reproable, \$90.00; Checked, \$145.00

SG1174 Signal Generator



SG1174/U (AUL 6201B) Signal Generator 3.8 - 7.6 GHz. Internal modulation of CW, pulse, square wave, FM or accepts external modulation. Control complement includes vernier tuning, attenuator, sync

multiplexer, pulse rate (40-400pps), pulse width (5-10us), sync delay (3-300us), and FM modulation level. Solid-state design except for 5037 klystron. 50 ohm output, plus sync and sync delay outputs; external modulation inputs. 5.7x19x13.7, 54 lbs sh, No manual available. used reproable, \$150.00

UHF Signal Generators

HEWLETT-PACKARD 620B SIGNAL GENERATOR, 7 to 11 GHz in single band FM, pulse or square-wave modulation. Calibrated output 0.1 uv to 0.224 V into 50 ohms. Also second 0.3 MW uncalibrated output useable for phase locking. Pulse rate 40 to 4000 pps; width 0.5 to 10 usec. Uses 5721 or = klystron. Requires 115/230 VAC 50-400 Hz. 13.9x17.5 x17.4, 70 lbs. USED-REPARABLE w/output, \$300.00



HP-618C GENERATOR, similar to 620B except 3.8 to 7.6 GHz; REPARABLE w/output, \$200.00

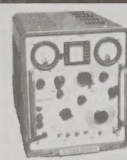
MANUALS for 618B or 620B, parti-repo \$15.00

TS-403 RF GENERATOR, 1.8-4.2 GHz; 0.1-200K uv out. Similar to HP-618B; 70 lb used reproable \$175

SG-557/TS-621 RF GENERATOR 3.8-7.5 GHz FM-CW; 110 lbs sh. USED-REPARABLE, \$200.00

Manuals for TS-403 or TS-621, partial-repo, \$15 ea

480 MHz Signal Generator



HEWLETT-PACKARD 608E SIGNAL GENERATOR, best of 608-series covers 10-480 MHz AM-CW-pulse; 1 & 5 Mhz calibration check points over range make +/-0.05% accuracy possible. Modulation 400 or 1000 Hz internal; external 20 Hz-20 KHz, 0 to 90%. Large 3.5" dia meters

for Percent Modulation & Output Volts-DBM. Requires 115/230 V 50-400 Hz; 16.4x13.3x21, 72 lbs. USED-REPARABLE, \$225. CHECKED, \$275. MANUAL for 608E, partial repro, \$15.00

FIBERGLASS TRANSIT CASE for HP-608 generators; 30 lbs sh. #FIB-USM-44B, used, \$49 \$300.00

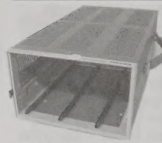
URM-26B GENERATOR

SG-117/URM-26B SIGNAL GENERATOR, 4 to 405 MHz AM-CW-Pulse in six bands. Output 0.1 to 100K uv into 50 ohms. Modulation 400 or 1K Hz 0-50%. External pulse-mod requires positive 40 V-min 50-500 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 V 50-1000 Hz. Outer case may have small dents. 11.3x14x10.5, 36 lbs sh.



USED-CHECKED, \$160. Manual, partial repro \$10 ACCESSORIES sold only with purchase of URM-26B: CN-315 2:1 attenuator, 50 ohms, \$8.00 CN-316 10:1 50 ohm, 10 ohms, \$8.00 CN-471 10:1 70 ohm, 10 ohm, \$10.00 CU-439 impedance matcher, \$10.00 BNC cords, 4 foot, \$4.00; 6 inch, \$2.00

TEK 500 Modules / Plug-ins



The TEK TM503 Power Module benchtop mainframe is a three wide power module compatible with all TM500 Plug-Ins. It provides unregulated DC and AC supplies and non-dedicated power transistors for plug-in usage.

17x8.35x9, 14 lbs sh. \$125.00

TM-501, Single Wide Power Module, \$115.00

TM-504, Four Wide Power Module, \$145.00

TM-506, Six Wide Power Module, \$150.00

TM-515, Five Wide Portable w/ covers, \$169.00

AF501 Bandpass Filter, \$195.00

AM502 Differential Amplifier, \$195.00

AM503 Current Probe Amplifier (no probe inc.), \$349

DC501 Counter 110 MHz, \$199.00

DC502 (opt. 1) Counter, \$199.00

DC503 Universal Counter, \$129.00

DC503A Counter/Timer, \$399.00

DC504 Counter / Timer, \$129.00

DC508 Counter 1 GHz, \$349.00

DC510 Universal Counter / Timer, \$499.00

DM501 Digital Multimeter, \$99.00

DM501A Digital Multimeter, \$125.00

DM502 Digital Multimeter, \$149.00

DM502A Autoranging Digital Multimeter, \$199.00

FG501 Function Generator, \$129.00

FG503 Function Generator, \$199.00

PG501 Pulse Generator, \$129.00

PG502 Pulse Generator, \$169.00

PG505 Pulse Generator, \$225.00

PS501 Power Supply, \$89.00

PS503A Power Supply 0-20VDCx2; 5VDC@1A, \$100.

RG501 Ramp Generator, \$159.00

SC501 Oscilloscope, \$200.00

SG503 Leveled Sine Wave Generator, \$499.00

TG501 Time Mark Generator, \$499.00

500MHz Microwave Comb Generator, \$199.00

*****TEK 5000 Modules and Plug-ins*****

TM5003 Chassis, \$225.00

DC5009 Universal Counter / Timer, \$399.00

FG5010 Programmable Function Generator, \$999

PLUG - INS



HP-1801A for 180-Series or USM-281A O-scopes Response DC-50 MHz. Deflection 5 mV to 20 V/div in 12 steps. Trigger A, B, A+B, chopped & alternate; 6 lbs sh. Gov't Recon. w/manual, \$85

VERTICAL PLUG-INS for TEKTRONIX 535/545-Series and other scopes, USED-REPARABLE:

TEK CA Dual-Trace DC-24 MHz, \$40.00

TEK M Four Channel DC-20 MHz, \$39.50

TEK O Operational Amp, \$85. MANUAL repro, \$15.

TEK Q Transducer-Strain Gauge, \$85.00

TEK Z Differential Comparator, \$85.

TEK 1A1 2-Trace 30/50 MHz Tek 545/547, \$49.

TEK 82 Dual-Trace for Tek 581/585/A, \$50.

7A16 DIFFERENTIAL COMPARATOR

plug-in for 7000-Series scopes; DC to 100 MHz. Useable as differential input preamp, conventional preamp or as comparator. +/- 10 V offsetting voltages; 4-digit readout. 5 lbs sh. USED-REPARABLE, \$125.00

TEK 7A16A SINGLE-TRACE for Tek 7000-Series scopes; DC to 225 MHz. USED-reproable, \$100.

TEK 7L13 SPECTRUM ANALYZER PLUG-IN, covers 1 KHz to 1.8 GHz; CRT readout of center frequency, 30 Hz-3 MHz resolution bandwidth, and automatic phase-lock. 5.8x14, 20 lbs. USED-reproable \$1500.

Many other plug-ins available ---

CRT's for 400- & 500-Series scopes: Write your needs!

MANY ITEMS NOT LISTED - TELL US YOUR NEEDS

TEK 7603N11S



AN/USM-281C (Tektronix 7603-N11S) OSCILLOSCOPE, modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 Mhz response. Includes two AM-6565 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual

time base plug-ins plus the 100 Mhz mainframe accepts standard Tek 7000-Series plug-ins. Vertical deflection 5 mV - 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed and Mixed. Rate 0.05 uS - 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Delayed rate 0.05 uS to 0.5 S/div in 22 steps. Requires 100-120/200-240 VAC 48-440 Hz. With book; 11.5x9.7x25.2, 52 lbs sh.

USED-REPARABLE, \$320. CHECKED, \$400.00
MANUAL for USM281C only, partial repro, \$30.00

+ ADAPTERS for USM-281C/TEK7603:
#103-0015 ADAPTER BNC (f) - UHF (m) \$2.50
#103-0032 ADAPTER BNC (m) - UHF (f) \$2.50
#103-0033 ADAPTER BNC (m) to post, \$2.50
#103-0030 T-CONNECTOR, BNC (f-m-f) \$3.00
#102-0118 CABLE, 8 ft BNC, 50 ohms, \$4.00

USM-281E 50 Mhz Scope

OS-246A/USM-281E SCOPE with AM-6566 dual-trace & TD-1086 time base-delay plug-ins. DC to 50 Mhz response, solid-state circuitry and 8x10 cm display. Deflection ranges: 5 mv to 10 V/div in 11 steps, 1-2-5 sequence + vernier to 25 V. Select CH 1 and/or 2 channels, alternating and chopped; X5 magnifier. Maximum input: 400 V peak AC or DC coupled. Sweep Auto, Trigger or Single. Ranges 0.1 us-2 s/div in 23 steps, 1-2-5 sequence, vernier to 5 sec. Delay range: 0.1 us to 50 ms/div in 18 steps, vernier to 125 ms. Delay variable 0.1 us-20 sec. Sweep magnifier X10. Calibrator 300 mv & 1 V p-p @ 1 KHz. Requires 115/230 VAC 50-440 Hz; Dumont mfg.



11.4x7.9x21.3, 44 lbs sh.
USED-CHECKED, \$295. Manual, partial repro, \$35.

OS-189/USM-281A SCOPE, militarized Hewlett-Packard 180 with PL-1186A dual-trace and PL1187A time base sweep delay plug-ins; same specs as USM-281E. used reparable w/trace \$150. MANUAL for USM-281A, partial repro, \$25.00

Leader 20 Mhz Scope

PRICE
REDUCED



LEADER LBO-522 20 Mhz DUAL-TRACE SCOPE with 8x10 cm display and 10 ns risetime. Deflection ranges 5 mv to 5 S/cm in 10 calibrated steps, 1-2-5 sequence. Modes CH-1 or -2, alternate, chop, add,

subtract. Time base 0.2 us to 0.2 s/div in 19 steps. Trigger sources: Internal CH-1 or -2, alternate, Line, Ext. Coupling: AC, HF REJ, TV-V, TV-H. X5 magnifier. Requires 100/120, 220/240 VAC 50-60 Hz; 6.3x11.4 x14.8, 24 lbs shipping. USED-REPARABLE with trace, \$450.00- \$99.50

275 Mhz SCOPE



HEWLETT-PACKARD 1720A PORTABLE SCOPE, DC to 275 Mhz response with dual channels, large 6x10 CM display, and selectable input impedance 50 ohms or 1 meg-ohm. Modes Channel A or B, A+B, A & B alternating, A & B chop.

Deflection: 5 mv-5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier to 12.5 V. Sweep: 10 ns-0.2 s/div in 23 steps, vernier to 0.5 sec and X10 magnifier. Trigger normal, auto or single. Delay sweep: 10 ns-0.1 s/div in 22 steps, vernier to 0.25 sec; delay time varies 0.02 us-2 sec. Calibrator 1 KHz squarewave, 1 V p-p. Requires 115/230 VAC 50-440 Hz, 38 lbs sh.

USED-REPARABLE, \$375. CHECKED, \$475.00

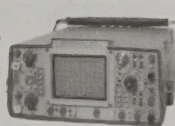
HP-1710A, similar except DC-150MHz, reparable, \$325
HP-1741A, similar except DC-100MHz, reparable, \$275

MANUAL for HP-1710A or 1720A, partial repro, \$30

TEK 100 Mhz SCOPE

TEKTRONIX 465M (AN/USM-425) OSCILLOSCOPE, militarized portable dual-trace unit has response DC to 100 Mhz and 8x10 CM display. Deflection 5 mv to 5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier.

Vertical modes: TRIG View, 20 Mhz BW, CH 1, ALT, Add, Chop, CH 2 or X-Y. Sweep 0.05 usec to 0.5 sec/div in 22 steps plus vernier; delay 0.05 usec to 50 msec/div. Inputs: 1 Megohm paralleled by 20 pf. Also X10 magnifier, adjustable handle, front cover and manual copy. Requires 100-132/ 200-264 V 48-440 Hz; 7x1.7x21.5, 32 lbs sh. Used physically OK but power supply troubles, \$350 \$225; Checked, \$475 \$375



PHILLIPS SCOPE



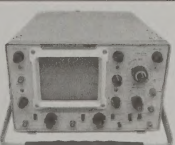
PHILLIPS 3267U DUAL CHANNEL DC-100 Mhz SCOPE with 8 x 10 cm display, 3.5 ns risetime and Trigger View, the display of 60 Mhz internal and 70 Mhz external

main time-base trigger signal. Vertical modes: Channels A or B only, A & B chopped or alternating, Trigger View only, A, B & Trigger View chopped or alternating, A & B added. Amplitude ranges 2 mv to 10 V/div in 12 calibrated steps, 1-2-5 sequence. Sweep ranges 0.05 us to 0.5 S/div in 22 calibrated steps. Delay to 1 ms, 14 steps. Calibrator 1.2 V rectangular. Requires 90-132/195-270 V 46-440 Hz or 24 VDC for battery. 5.4x13.2x17.5, 29 lbs sh. USED-reparable with trace and operator's manual, \$200.00

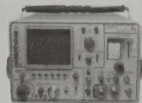
20 Mhz Scope

BALLANTINE 1066B PORTABLE OSCILLOSCOPE, Dual-trace unit has DC-20Mhz response and 5 mV/cm sensitivity. Rise time is 17.5 nsec.

Time base includes x10 magnifier for speeds from 50 nsec/cm to 25 sec, full-screen. 18 x 12.5 x 7.1, 23 lbs sh. Used Reparable w/ manual repro, \$150.00



SPECTRUM ANALYZER



TEKTRONIX 491 SPECTRUM ANALYZER, portable unit with 8x10 cm CRT display covers 10 Mhz to 12.4 GHz; up to 40 GHz using external mixers (optional). Resolution 1 KHz to 100 KHz,

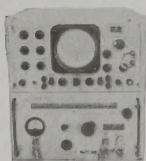
coupled with calibrated dispersion positions but separately switchable. Sensitivity > 100 dbm to 8.2 GHz. IF attenuation: 51 db using toggles 1-2-4-8-16-20 db. Sweep: 10 us to 0.5s/div in 15 steps. Dispersion: 1 KHz to 10 Mhz/div 1-2-5 sequence using 1 KHz & 1 Mhz ranges. Requires 90-136/180-272 VAC 48-440 Hz. 7x12.5 x17.5, 36 lbs sh. USED-REPARABLE with display of RF input, \$1195. MANUAL, partial repro, \$25.00

UPM-84 Spectrum Analyzer

TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 Mhz to 44.88 Ghz in eight bands; 5" 5ADP7 CRT. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-Mhz adjustable (10-55 Mhz); 500 KHz-25 Mhz (55 Mhz & up). Spectrum calibrator 160 Mhz center freq +12.5 Mhz.

Sensitivity as low as -63 db (10-150 Mhz); 40 db (2.0 Ghz up). RF attenuation 100 db uncalibrated internal 10 Mhz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26, 150 lbs. UPS SHIPPABLE. Used Reparable, \$346.00 \$199.00 MAINTENANCE MANUAL, partial repro, \$20.00 OPERATOR'S MANUAL, partial repro, \$8.50

+ ACCESSORY KIT for UPM-84 including five band-pass filters for segments of 0.75-11.8 Ghz range, 3 variable attenuators & 3 coax to waveguide adapters for 12.4-44.88 Ghz; 20 lbs. \$85.00 w/ set purchase



HP Analyzer Plug-In



HEWLETT-PACKARD 8553B SPECTRUM ANALYZER PLUG-IN for HP-141T mainframe; covers 1 KHz to 110 Mhz in bands 0-11 and

0-110 Mhz. IF bandwidths: 10 Hz to 300 KHz, 1-3 sequence. Scan widths on 10-division CRT: 20 Hz/div to 10 Mhz/div in 18 calibrated steps, 1-2-5 sequence. 4x8.9x13.5, 17 lbs.

used reparable \$250.00 Manual, partial repro, \$17
HP-8556A, similar to 8553B but covers 20 Hz to 300 KHz range. USED-REPARABLE, \$175.00

+ HEWLETT-PACKARD 8445B Opt 002 TRACKING PRESELECTION

for HP-141T/ 8555A spectrum analyzer over 10 Mhz to 18 Ghz. Suppresses mixing image and multiple responses during spectrum tests. Functions as YIG filter over 1.8-18 Ghz with selectable scans of 2-4-6 or 8 Ghz. Uses low pass filter below 1.8 Ghz. Opt 002 provides Coarse & Fine manual controls and MODE Auto-Manual-Remote-Low Pass select; N connections. Less interconnect cable. Requires 100/120/200/240 V 48-440 Hz. 3.5x16.8 x18.4, 25 lbs sh. USED-REPARABLE, \$299

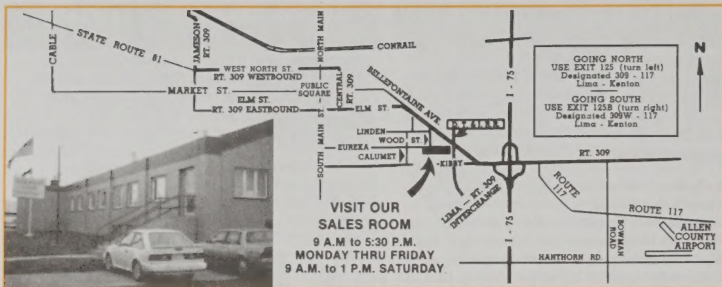
Option 001; less manual controls, but does have APC-7 connectors, used reparable, \$199.00

Option 003; w/ manual controls, also has center frequency counter, used reparable, \$325.00



HP-8443A TRACKING GENERATOR-COUNTER, similar to above except for use with 141T/ 8553A 0.1-110 Mhz spectrum analyzer. Used reparable, \$275.00

FOR ORDERING INFORMATION SEE PAGES 17 & 18



VISIT OUR
SALES ROOM
9 A.M. to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. to 1 P.M. SATURDAY

Time Marker Generator



AN/USM-441 Time Marker Generator (equal to Ballantine 6130A) is a precise, high quality calibration tool used to check and calibrate the sweep ranges of oscilloscopes with bandwidths to 250 Mhz, as well as sampling oscilloscopes, frequency counters, spectrum analyzers and signal generators. It can also serve as a secondary time standard, and additionally offers a convenient method for checking raise-time alignment of oscilloscope vertical amplifiers. Unit provides four different, time coincident outputs: time markers, high frequency sine waves, trigger period intervals (square waves), and a 10MHz crystal clock output. Requires 120VAC 60Hz. 12.5x8.3x6, 9 lbs sh. Unused, \$125.00

ters, spectrum analyzers and signal generators. It can also serve as a secondary time standard, and additionally offers a convenient method for checking raise-time alignment of oscilloscope vertical amplifiers. Unit provides four different, time coincident outputs: time markers, high frequency sine waves, trigger period intervals (square waves), and a 10MHz crystal clock output. Requires 120VAC 60Hz. 12.5x8.3x6, 9 lbs sh. Unused, \$125.00

Patching Switchboard

SB-2727 Rackmountable Communication Patching Switchboard. Provides facilities for transferring two wire audio lines so that remote control stations can be selectively transferred to a choice of radio receivers. The equipment incorporates twenty, two circuit, removable wafer, rotary selector switches having twenty-five rotary positions; twenty-four active and one "off" position. This design permits the transfer of any one or all twenty remote control stations to any one of twenty-four receivers. Facilities are provided for transferring all circuits to additional Communication Patching Switchboards when more than twenty remote control stations, or when more than twenty-four receivers are installed in the system. 11.1x19x14, 47 lbs sh. Used w/ manual, \$135



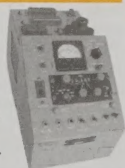
Pressure Gauge



0 to 15 PSI Pressure Gauge by USG. 2.1" round with 1/8" fitting and brass coupling. #PS-15, Used, \$7.95

URM-157 Test Set

Collins 618T URM-157 Test Set. Consists of TS-1949/URM-157 and cable which connects the TS-1949 to the 618T. The radio set control is part of the TS-1949. Has meter to indicate forward/reflected power 200/2000 watts. Also provides connections for microphone, headset, audio in, and key. Power input connector also provided. Connections for 516H-1, antenna coupler, DC in, AC out are on the test set (write for available connectors/cables). Used, \$350.00



TS-1949 less control box but with test set, RT cable, and AC connector, \$300.00

TS-1949 only, less control box, \$125.00

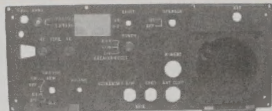
Ritchie Compass



Ritchie Compass HF-73 has 5 degree increments. Flush mount Helmsman style. Originally designed for powerboats and sailboats. 3 3/4" direct read dial. Hardened steel pivot and sapphire jewel movement. 45-lubber lines. Internal gimbals. Built-in compensators. Movable sun shield. Black in color. Used, \$59.95

Built-in compensators. Movable sun shield. Black in color. Used, \$59.95

RT-524 Front Panel



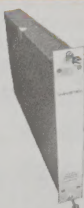
Front Panel only for RT-524/A radio. Unused, \$25.

Soldering Iron

Cordless Soldering Iron with Charger by Isotip "Quick Charge" #7700. Solders up to 125 electronic joints per charge. Recharge takes 3 to 4 1/2 hours. Consists of cordless soldering iron, recharging stand, #7545 fine tip (1/16"), #7546 heavy duty tip (3/16"), and instructions. 3 lbs sh. Unused, \$39.95



Frequency Synthesizer



Wavetek 5107 Frequency Synthesizer Channel generates spectrally pure and stable output frequencies from 1Hz to 3MHz with constant 1Hz resolution. It utilizes a unique direct digital synthesis technique to generate the output sinusoid. Complementary TTL compatible square wave outputs are provided for monitoring the output of the channel. Unit obtains its input power, clock control logic, and programming information externally. Requires regulated 5VDC at 2.5 amps and 15VDC at 100ma. Comes with the programming mating connector and manual. 13.6x1.35x8.7, 13 lbs sh. Unused, \$135

MT-300 Mount

MT-300 Mount serves as support for the RT-70/AM-65 radio system and as a junction box for interconnecting the RT-70 and interphone amplifier with control box C-375 (page 9). Also, interconnects the vehicular power source and the power supply within the amplifier. 13x8.3x3.1, 13 lbs sh. Used, \$85.00

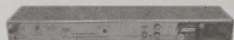


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PERMIT 610
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Audio Modulator

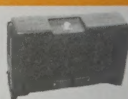


Solid State Audio Modulator by Blonder-Tongue

Model AMT-a provides a modulated aural carrier RF output on any single VHF TV channel 2-13. It can be used to put sound and color video on any unused channel of a closed circuit, MATV or CATV system or onto a single TV receiver. The wide range audio input can be directly driven from an AM or FM tuner, tape recorder, or high impedance dynamic or crystal microphone. The unit may also be used for carrier substitution. 4x19x1.8, 6 lbs sh. Unused, \$89.50

PRC-74 Battery Box

CY-6121/PRC-74 BATTERY BOX, aluminum box designed to clip onto RT-794/PRC-74A/B backpack transceiver and will hold ten BB-418 nickel-cadmium cells. Has swivel-legs to steady radio; 8.5x12x3.5, 7 lbs shipping. UNUSED, \$49.50



Tube Sale !!



Grab Box Tube Sale - 3 pounds of varying types of unchecked used or unused vacuum tubes. Randomly picked from our inventory of tubes of low demand. No guarantee of brands or types. Ideal for the tube enthusiast! 4 or 5 lb shipping weight, #TB-GB, \$20.00

HP-141T Plug-in

HP-8552B IF Plug-in for 141T. Features video filtering, recorder outputs and an internal calibration signal to make the spectrum analyzer easier to use. Provides bandwidth/gain selection and detection. Internal calibration standard is -30dBm, 30MHz signal. 16.8x16.4x8.8, 14 lbs sh. Used operates but may need adjustment, \$350.00



See page 39 for our other HP-141T plug-in listings.